

# **Practice School – II**

## **Report PS1102**

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**July 2022**

# **“Full-Stack Web Development “**

## **Practice School-2**

Submitted in partial fulfillment of the requirements

for the degree of

**Bachelor of Technology in Computer Science Engineering**

By:

**Varun Rawat (2018BtechCse018)**

Faculty Guide:

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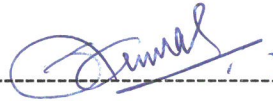
**July 2022**

## CERTIFICATE

This is to certify that the Practice School-2 project work entitled “**Full Stack Web Development**” submitted by **Varun Rawat (2018BtechCse018)**, towards the partial fulfillment of the requirements for the degree of **Bachelor of Technology in Computer Science Engineering** of JK Lakshmipat University Jaipur is the record of work carried out by them under my supervision and guidance. In my opinion, the submitted work has reached the level required for being accepted for the Practice School-II examination.

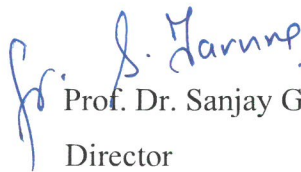


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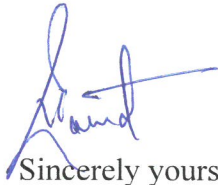
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## **ACKNOWLEDGEMENTS**

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Sincerely yours,

Varun Rawat

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## Abstract

Managing the employee lifecycle is more complex than ever before; with four generations in the workplace, all with different needs and expectations, it becomes imperative to optimize the experience for employees throughout every stage of their lifecycle. To deal with this complexity, HR professionals are increasingly choosing to manage the employee lifecycle in a single Human Resources Information System like Workday. Having all the information in a single place reduces errors, makes legal compliance easier and reduces complexity. In its inception as licensed on-premises software, HR management software was restricted to employee data, payroll, and benefits. But the HRM software market has expanded significantly due to automated workflows and demand for cloud technology. These changes in customer expectations and the greater willingness of the workforce to use self-service models now mean HR tasks like payroll, time-off requests, benefits management, and org charts take up less administrative time, which frees up the HR team to focus their attention on recruiting, employee experience, workforce management, company culture, branding, and other tasks that now fall under the descriptor of talent management. but there is still an issue that lies in this whole process. The product team should be in sync with the HR team about the employee lifecycle, and this is where a need for integration better between the HR system and the Identity system arises. Until now, there are only a few software that provides this solution but not in so efficient ways and with old technologies. Few popular HR systems are Workday, ADP, Ceridian, Oracle HCM, Ultipro, BambooHR and popular identity management system are Active Directory and Azure Active Directory.

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## **CHAPTER 1 : INTRODUCTION**

The employee lifecycle is the different stages an employee goes through in their period in the organization. It is a method to visualize how an employee engages himself with the organization throughout his lifecycle. The human resource department's role is vital in employee life cycle management.

There are six stages involved in the employee life cycle: outreach, recruitment, onboarding, development and training, performance, and offboarding. The stages include how the organization approaches the candidate for selection, recruitment, onboarding the employee, training needs, determining personal and organizational performance levels, and final separation.

Employee lifecycle management allows a company to explore how they can bring positive changes in the time span of the employee in the organization. The different stages can be studied, and the areas that are weak in employee engagement can be focused on improving employee output. Managing an employee life cycle to the best will ensure employee retention, greater satisfaction, and high productivity levels altogether.

### **1.1 PROBLEM STATEMENT :**

The idea of being able to write reusable and portable code is the basic essence of Programming. A component should be separate from the main application. This increases reusability, testability, and reliability because the component is only responsible for its internals and shouldn't be concerned with the state of the application, only its own. Both the component author and user can upgrade the component without fear of affecting the rest of the application.

Components are Logically Independent, but they need to interact with each other for an application to work. Angular provides ways for component communication. In our product, Hire2Retire I needed to pass data between two isolated components using a service. The problem was that the data was dynamic and should be updated in real-time when it gets changed in one of the components.

## CHAPTER 2 : ABOUT THE COMPANY AND ROLES

### 2.1 ROBOMQ PVT. LTD



Figure 1: RoboMQ Logo

RoboMQ is an API and data integration company behind some of the leading-edge technologies and platforms that enable enterprises to build business processes and automate their operations using the best-of-breed cloud, SaaS, and on-premises applications that they already own. RoboMQ accelerates digital transformation to create a competitive advantage using the best-of-the-breed SaaS, cloud, on-premises apps, and IoT. Its Pre-packaged integration solutions (PIPs), Connect iPaaS, and Hybrid Integration Platform (HIP) provides intuitive, UX-based API and data integration for the line of business and technology users

### 2.2 PROJECT

#### 2.2.1 Hire2Retire

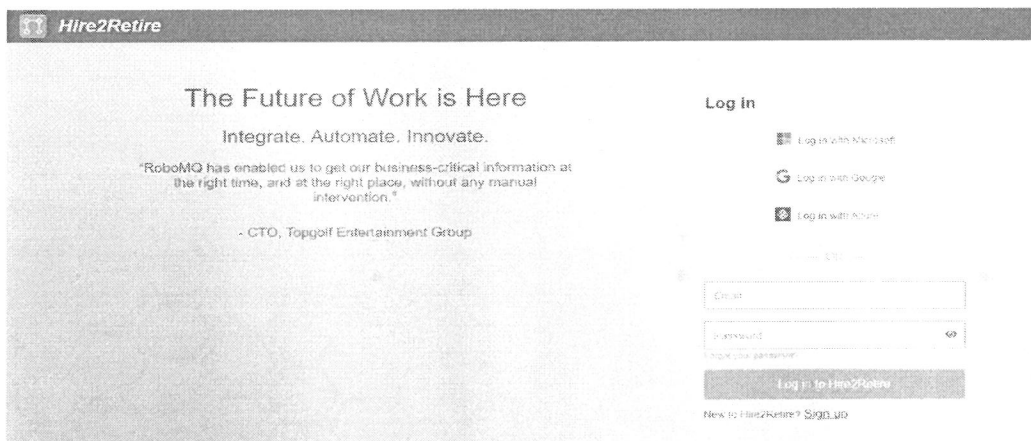


Figure 2: Hire2Retire

'Hire2Retire' is a HRIS to AD/Azure AD data integration platform that follows the drag-drop and clicks approach. In today's economic climate,

companies are in a constant struggle to do more with less and be more efficient. Business processes that were once performed manually are now automated and it is essential. This is especially true for HR and IT teams as they must work together to efficiently onboard and offboard employees and manage employee lifecycle events.

### 2.2.2 Employee lifecycle event

Employee life cycle -- also spelled as employee lifecycle -- is an HR model that identifies the different stages a worker advances through in an organization, as well as the role HR plays in optimizing that progress.



Figure 3: Hire2Retire Workflow

For Example, the HR executive of a company must keep records of employees of their company. This task is about managing the employee's lifecycle activity like who has onboarded, who is on leave and who is terminated along with other activities. The process seems easy if the number of employees is around 50-100 but as soon as it crosses a certain number, the process becomes repetitive, cumbersome, and time-consuming. In addition to that, there may be a lot of cases where errors can occur, and some employees can walk away with sensitive information of the company. Furthermore, this data must be processed in identity management system of the company by product manager or similar authority. So, there must always be a sync between the records kept by HR and identity management system.

### 2.2.3 Advantages of using hire2retire

- Smoother Employee Onboarding
- Timely Offboarding
- Cost and Resource Savings
- Better Security with Identity Management
- Enhanced Employee Experience

## 2.3 ROLES AND TRAINING

My profile is Associate Software Development Engineer, and I will be working on full-stack web development. I have been assigned to the Front-End Development team and we had training sessions on the following topics

- Angular
- Node JS
- Javascript
- Linux
- Git
- Docker
- Kubernetes
- SQL
- RabbitMQ

#### Training Phases:

| Topic                         | Date                     |
|-------------------------------|--------------------------|
| Communication Training        | 20 to 22 January         |
| JavaScript, Node, and Angular | 27 January to 4 February |
| Linux Training                | 11 to 15 February        |

#### Internal Training

| Topic         | Date        |
|---------------|-------------|
| AMQP/RabbitMQ | 7 February  |
| Docker        | 8 February  |
| Kubernetes    | 9 February  |
| Connect-iPaas | 10 February |
| Product QnA   | 10 February |

## 2.4 TOOLS AND TECHNOLOGIES

### 2.4.1 Angular

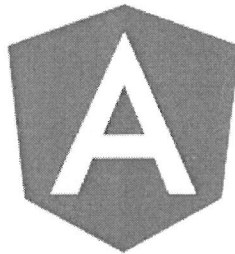


*Figure 4: Angular Logo*

Angular is a development platform, built on TypeScript. As a platform, Angular includes a component-based framework for building scalable web applications a collection of well-integrated libraries that cover a wide variety of features, including routing, forms management, client-server communication, and more a suite of developer tools to help you develop, build, test, and update your code. Angular is a platform that can scale from single-developer projects to enterprise-level applications. Angular is designed to make updating as straightforward as possible.

#### *Advantages of Angular*

- **TypeScript:** Angular is built with TypeScript. The main advantage of this strongly typed language is that it helps developers to keep their code clean and understandable. Bugs are easier to spot and eliminate with the ability to see common errors as you type.
- **Consistency:** In contrast to React, Angular is a fully-fledged responsive web design framework. A key feature is that there is one suggested way to create a component, service, or module. In practice, this has the effect of creating great consistency throughout the code base – an important goal to strive for – and avoids the situation of other developers wondering how on earth something was built.
- **Modular development structure:** The modular nature of Angular means that developers can effectively divide code into modules. This allows for easy organization of app functionality and the creation of reusable chunks of code which can vastly reduce development time and cost. The Angular community further supports this with a variety of ready-made components.

### **2.4.2 Node js**

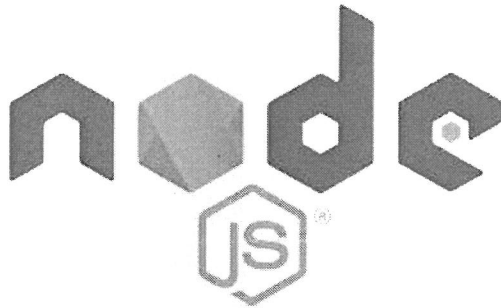


*Figure 5: Node Js*

Node is an open-source server environment that is free to use, runs on various platforms like Windows, Linux, Unix, Mac Os, etc, and uses JavaScript on the server. Node.js runs single-threaded, non-blocking, asynchronous programming, which is very memory efficient.

#### *Applications of Node js*

- Node.js can generate the dynamic page content
- Node.js can create, open, read, write, delete, and close files on the server
- Node.js can collect form data
- Node.js can add, delete, and modify data in your database

### **2.4.3 Express:**

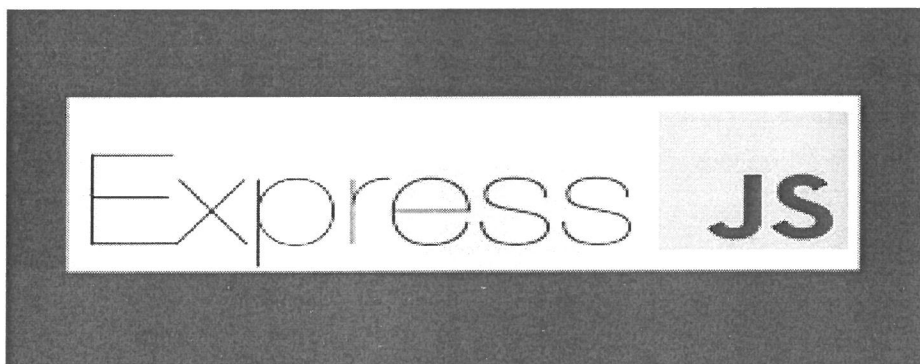


*Figure 6: Express Js*

Express is the most popular Node web framework and is the underlying library for several other popular Node web frameworks. It provides mechanisms to:

- Write handlers for requests with different HTTP verbs at different URL paths (routes).
- Set common web application settings like the port to use for connecting, and the location of templates that are used for rendering the response.
- Add additional request processing "middleware" at any point within the request handling pipeline.

#### 2.4.4 **Rest API's:**

A REST API is an API implementation that adheres to the REST architectural constraints. It acts as an interface. The communication between the client and the server happens over HTTP. A REST API takes advantage of the HTTP methodologies to establish communication between the client and the server. REST also enables servers to cache the response that improves the application's performance.

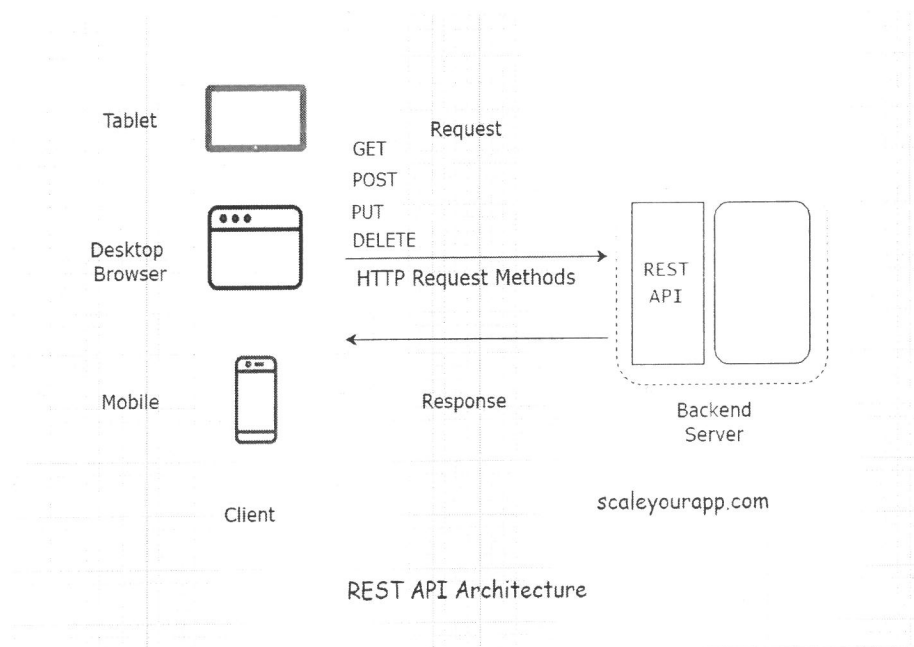


Figure 7: REST Architecture

The communication between the client and the server is a stateless process. Every communication between the client and the server is like a new one.

There is no information or memory carried over from the previous communications. So, every time a client interacts with the backend, the client must send the authentication information to it as well. This enables the backend to figure out whether the client is authorized to access the data or not.

Common RestAPI methods are:

1. GET : The GET method requests a representation of the specified resource. Requests using GET should only retrieve data.
2. POST : The POST method submits an entity to the specified resource, often causing a change in state or side effects on the server.
3. PUT : The PUT method replaces all current representations of the target resource with the request payload.
4. DELETE: The DELETE method deletes the specified resource.
5. PATCH: The PATCH method applies partial modifications to a resource.

#### **2.4.5 JavaScript**

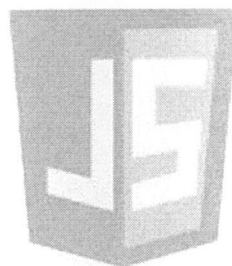


*Figure 8: Javascript Logo*

JavaScript (JS) is a lightweight, interpreted, or just-in-time compiled programming language with first-class functions. While it is most well-known as the scripting language for Web pages, many non-browser environments also use it, such as Node.js, Apache CouchDB, and Adobe Acrobat. JavaScript is a prototype-based, multi-paradigm, single-threaded, dynamic language, supporting object-oriented, imperative, and declarative (e.g., functional programming) styles. It is complementary to and integrated with

Java. JavaScript is very easy to implement because it is integrated with HTML. It is open and cross-platform.

#### *Applications of Javascript*

- Client-side validation - This is important to verify any user input before submitting it to the server and Javascript plays an important role in validating those inputs at the front-end itself.
- Manipulating HTML Pages - Javascript helps in manipulating HTML pages on the fly. This helps in adding and deleting any HTML tag very easily using javascript and modifying your HTML to change its look and feel based on different devices and requirements.
- Back-end Data Loading - Javascript provides Ajax library which helps in loading back-end data while you are doing some other processing. This really gives an amazing experience to your website visitors.
- Server Applications - Node JS is built on Chrome's Javascript runtime for building fast and scalable network applications. This is an event-based library that helps in developing very sophisticated server applications including Web Servers.

#### **2.4.6 Docker :**

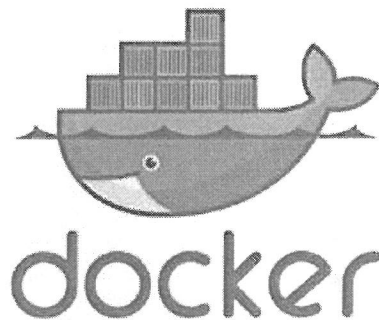


*Figure 9: Docker logo*

Docker is a software platform that allows us to build, test, and deploy applications quickly. Docker packages software into standardized units called containers that have everything the software needs to run including libraries, system tools, code, and runtime. Using Docker, we can quickly deploy and scale applications into any environment and know our code

will run. Docker containers can run anywhere, on-premises in the customer datacentre, in an external service provider, or in the cloud, on Azure. Docker image containers can run natively on Linux and Windows. Developers can use development environments on Windows, Linux, or macOS. On the development computer, the developer runs a Docker host where Docker images are deployed, including the app and its dependencies. Developers who work on Linux or on macOS use a Docker host that is Linux-based, and they can create images only for Linux containers. Developers who work on Windows can create images for either Linux or Windows Containers.

#### *Advantages of Docker*

- **Consistent and Isolated Environments:** Using containers developers can create predictable environments that are isolated from other apps. Regardless of where the app is deployed, everything remains consistent and this leads to massive Productivity: less time debugging, and more time launching fresh features and functionality for users.
- **Test, Roll Back, and Deploy:** Environments remain more consistent in Docker, from start to finish. Docker images are easily versioned, which makes them easy to roll back if you need to do so. If there is a problem with the current iteration of the image, just roll back to the older version.

#### **2.4.7Kubernetes:**

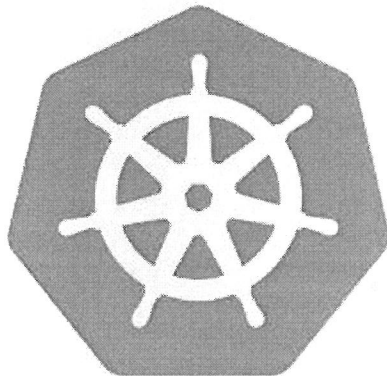


*Figure 10: Kubernetes Logo*

Kubernetes is also known as K8s, is an open-source system for automating deployment, scaling, and management of containerized applications. It groups containers that make up an application into logical

units for easy management and discovery. Google open-sourced the Kubernetes project in 2014.

Early on, organizations ran applications on physical servers. There was no way to define resource boundaries for applications in a physical server, and this caused resource allocation issues. As a solution, virtualization was introduced. It allows you to run multiple Virtual Machines (VMs) on a single physical server's CPU. Virtualization allows applications to be isolated between VMs and provides a level of security as the information of one application cannot be freely accessed by another application. Containers are like VMs, but they have relaxed isolation properties to share the Operating System (OS) among the applications. Therefore, containers are considered lightweight. Like a VM, a container has its own filesystem, the share of CPU, memory, process space, and more. As they are decoupled from the underlying infrastructure, they are portable across clouds and OS distributions.

#### **2.4.8 RabbitMQ:**

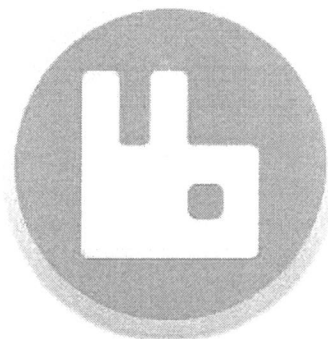


*Figure 11: RabbitMQ Logo*

RabbitMQ is open-source message-broker software that originally implemented the Advanced Message Queuing Protocol and has since been extended with a plug-in architecture to support Streaming Text Oriented Messaging Protocol, MQ Telemetry Transport, and other protocols. Written in Erlang, the RabbitMQ server is built on the Open Telecom Platform framework for clustering and failover. Client libraries to interface with the broker are available for all major programming languages.

Messaging enables software applications to connect and scale. Applications can connect to each other, as components of a larger application, or to user devices and data. Messaging is asynchronous, decoupling applications by separating sending and receiving data. RabbitMQ is a messaging broker - an intermediary for messaging. It gives your applications a common platform to send and receive messages, and messages a safe place to live until received.

#### **2.4.9      *Git:***

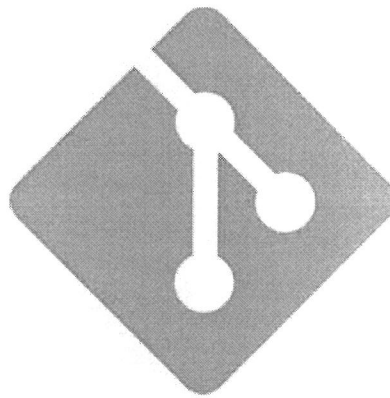


*Figure 12: Git Logo*

Git is a version control system that records changes to a file or set of files over time so that you can recall specific versions later. It is a distributed version control system designed to handle everything from small to very large projects with speed and efficiency. Git is easy to learn and has a tiny footprint with lightning-fast performance. It outclasses SCM tools like Subversion, CVS, Perforce, and ClearCase with features like cheap local branching, convenient staging areas, and multiple workflows.

#### **2.4.10      *MySQL:***



*Figure 13: MySQL logo*

MySQL is a relational database management system based on the Structured Query Language, which is the popular language for accessing and managing the records in the database. MySQL is open-source and free software under the GNU license. It is supported by Oracle Company. It is a fast, scalable, and easy-to-use database management system in comparison with Microsoft SQL Server and Oracle Database. It is commonly used in conjunction with PHP scripts for creating powerful and dynamic server-side or web-based enterprise applications.

#### **2.4.11      *Linux:***

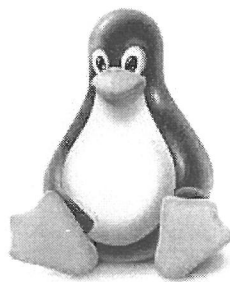


*Figure 14: Linux Logo*

Linux is an open-source operating system (OS). An operating system is **a** software that directly manages a system's hardware and resources, like CPU, memory, and storage. The OS sits between applications and hardware and makes the connections between all your software and the physical resources that do the work.

## CHAPTER 3 : Product Workflow and Design

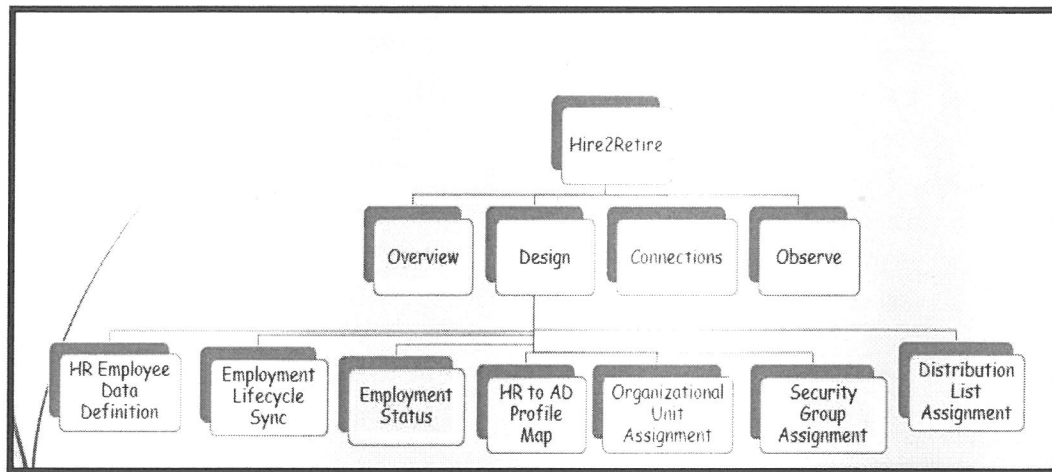


Figure 15: Hire2Retire Overview

The design page of “Hire2Retire” consist of five tabs:

1. Overview    2. Design    3. Applications
4. Connections    5. Observe

### 3.1.1 Design:

Hire2Retire design page contains 7 steps which helps you to manage Employee Lifecycle smoothly:

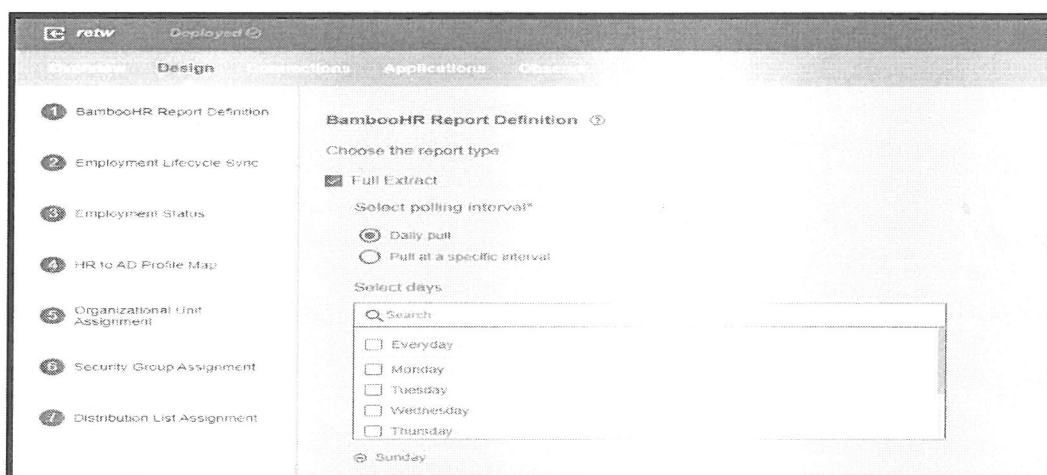


Figure 16: Hire2Retire Design Steps

1. HR Employee Data Definition
2. Employment Lifecycle Sync
3. Employment Status
4. HR to AD Profile Map
5. Organizational Unit Assignment
6. Security Group Assignment
7. Distribution List Assignment

The screenshot shows a web interface for configuring applications. The top navigation bar includes a logo, the text 'refw', and a 'Deployed' status indicator. Below the navigation bar, there are tabs for 'Overview', 'Applications', and 'Configuration'. The 'Applications' tab is selected, and the page title is 'Applications'. The main content area is titled 'HR Employee Information Definition'. It contains a 'Source Event' section with the text 'Check for HR Employee Extract in Bamboo HR with the following configurations:'. Below this, there are two sections: 'Full Extract:' and 'Delta Extract:'. The 'Full Extract:' section includes a 'Select polling interval' dropdown set to 'Daily pull', a 'Select days' list with 'Sunday' selected, and a 'Select timezone (Arabic) Egypt Standard Time (ART)' dropdown. The 'Delta Extract:' section includes a 'Select polling interval' dropdown set to '6 hours', a 'Run an initial delta data pull upon deployment' checkbox checked, and a 'Select employee attributes you want to process' list with the following items: '401(k) - Company pays', '401(k) - Status', 'Bereavement - Available Balance', 'City', 'Compl'n Lieu Time - Hours taken (YTD)', 'Compl'n Lieu Time - Policy', and 'Company Handbook Quiz - Completed'. At the bottom of the page, there is a section for 'Event Filter Criteria'.

refw Deployed

Overview Applications Configuration

Applications

HR System : Bamboo HR

Identity Management : Hybrid (Active Directory + Azure AD)

**HR Employee Information Definition**

Source Event: Check for HR Employee Extract in Bamboo HR with the following configurations:

**Full Extract:**  
Select polling interval: Daily pull  
Select days:  
• Sunday  
Select timezone (Arabic) Egypt Standard Time (ART)  
Run an initial full data pull upon deployment: *True*

**Delta Extract:**  
Select polling interval: 6 hours  
Run an initial delta data pull upon deployment: *True*  
Select employee attributes you want to process:  
• 401(k) - Company pays  
• 401(k) - Status  
• Bereavement - Available Balance  
• City  
• Compl'n Lieu Time - Hours taken (YTD)  
• Compl'n Lieu Time - Policy  
• Company Handbook Quiz - Completed

Event Filter Criteria:

Overview : This Page shows the overally summary of our flow along with the data filled in the forms.



Figure 17: Hire2Retire Application section

**Application:** This page shows the 8 HR System and the identity management

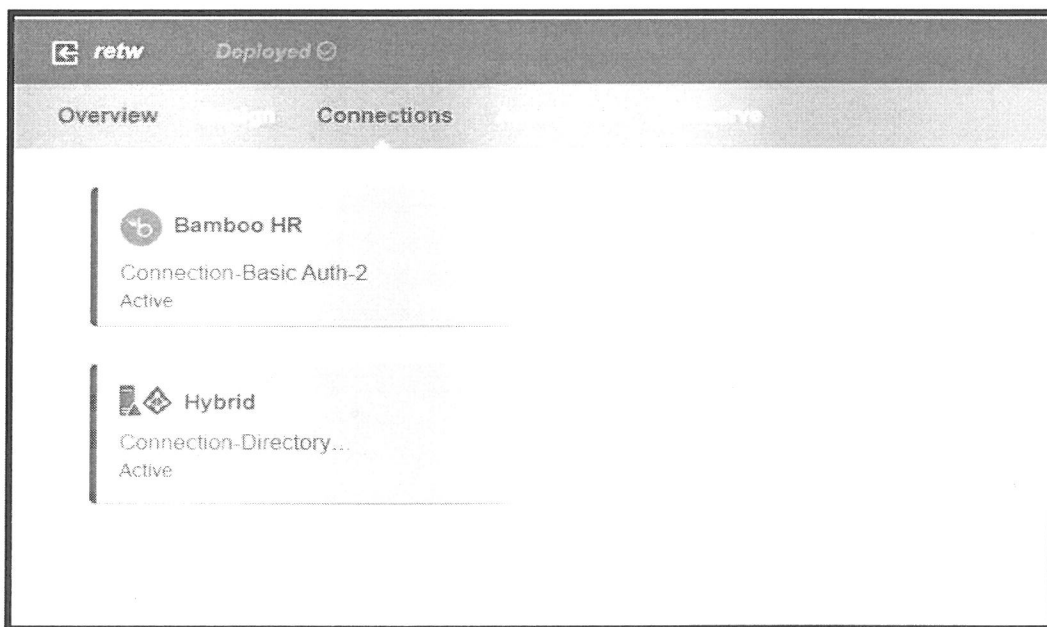


Figure 18: Hire2Retire Connection section

**Connections:** Connections are created here, with AD/AzureAD and SFTP.

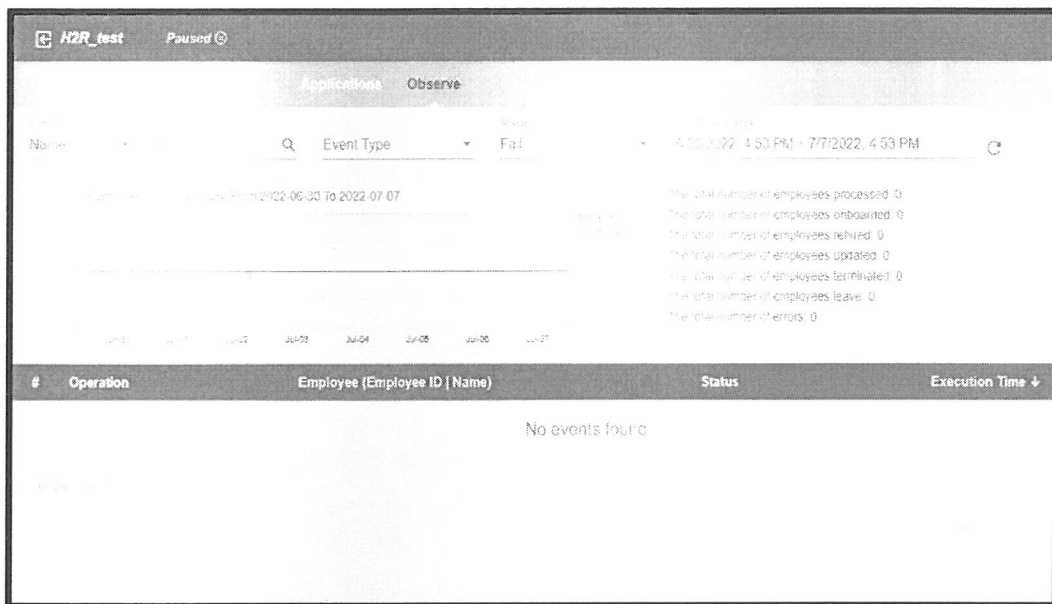


Figure 19: Hire2Retire Observe page

**Observe:** Here, flow deployed, or failed summary is shown with the error message.

## **CHAPTER 4 : Methodology and Result:**

### ***4.1.1 Methodology***

#### ***Step 1:***

Identify the method of component interaction. We have 2 components here

- Formcomponent-multiselect.component.ts – It contains the multiselect dropdown where user will select data.
- Filter-handler.component.ts – It contains filter which user can use to apply specific condition on the data sent from multiselect dropdown.

Since these 2 components don't have parent-child components, we will use a service here for data interaction.

#### ***Step 2:***

Create a service using Angular CLI and define a behaviour subject inside this service. We will use this Behaviour subject to cast our value to the filter-handler.

#### ***Observable :***

An observable is a function that creates an observer and attaches it to the source where values are expected from, for example, clicks, mouse events from a dom element or an HTTP request, etc.

#### ***Observer:***

An Observer is a consumer of values delivered by an observable. Observers are simply a set of callbacks, one for each type of notification delivered by an observable, Next, Error, and Complete.

#### ***Subject :***

A Subject is like an Observable but can multicast to many Observers. Subjects are like EventEmitters: they maintain a registry of many listeners  
Behaviour Subject

### ***Behavior Subject:***

Behavior is a variant of a Subject that has a notion of the current value that it stores and emits to all new subscriptions. This current value is either the item most recently emitted by the source observable or a seed/default value if none has yet been emitted. Since there must always be a current value, Behaviour Subject requires an initial value during initialization.

### ***Step 3:***

Identify a way to detect real-time changes in the Multiselect dropdown. To understand this. First, we need to understand what is formcontrol and formgroup.

### ***Formcontrol:***

Formcontrol is an object that encapsulates all the information related to the single input element. It sets and tracks the individual HTML form element. it is one of the building blocks of the angular forms. The Formcontrol is just a class. A Formcontrol is created for each form field. We can refer to them in our component class and inspect its properties and methods

### ***FormGroup:***

Form groups wrap a collection of form controls. Just as the control gives you access to the state of an element, the group gives the same access but to the state of the wrapped controls. Every single form control in the form group is identified by name when initializing

The angular emits the valueChanges event whenever the value of the control changes. The value may change when the user updates the element in the UI or programmatically through the setValue/patchValue method. We will use this method on multiselect to detect if the user has added a new value through the checkbox or removed an existing one.

### ***Step 4:***

Subscribe to the valuechanges event and send this data to the service. The problem here is that the data we send from multiselect dropdown comes in a different format. So, I had to first manipulate it in accordance with the format that filter-handler supports.

### **Step 5:**

Once I had the data in desired format , I casted this data using Behaviour subject that we created earlier. For casting ,we will use next() method. The BehaviorSubject has the characteristic that it stores the “current” value. This means that we can always directly get the last emitted value from the BehaviorSubject. The reason we are using a Behavior Subject is so that we can multicast the data to other components as well if we need it in the future.

### **Step 6:**

To receive the value from BehaviorSubject, we need to subscribe to it in filter-handler.component.ts.Only then we will receive the latest value from multiselect dropdown.

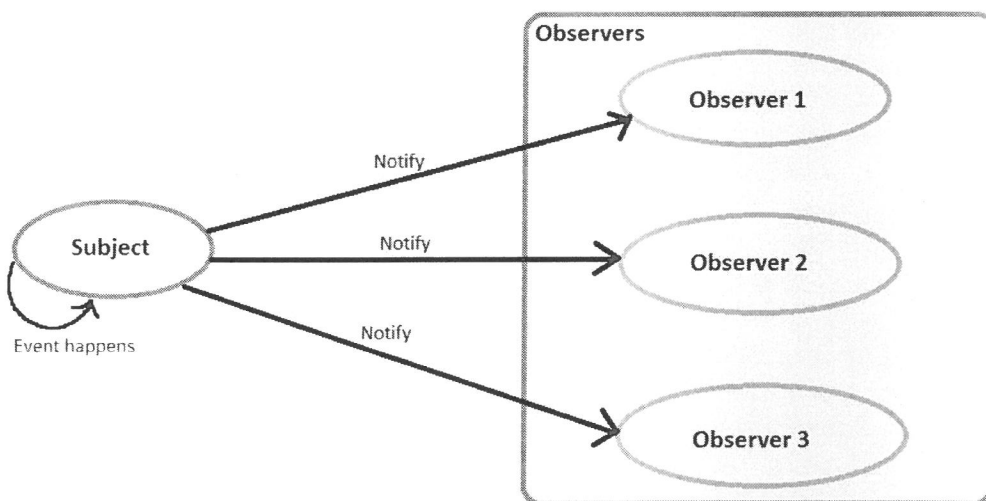


*Figure 20: How Subject works*

### **Step 7:**

Once I subscribed to the behavior subject, I started getting real-time values from formcontrol. I stored these values in an array. Now, this array contains all the values selected in multiselect and I can apply conditions on array to make Applyfilter button enabled or disabled and patch these values in filter-handler.

### 4.1.2 Result:

We successfully sent data from multi-select dropdown to filter handler. The Apply filter button only gets enable when one or more value is selected in the multiselect. Moreover We also stored the data in session storage because this same data is used ahead in other steps as trigger data.

Select employee attributes you want to process

Search

☐ Select All

☐ 401(k) - Company pays

☒ 401(k) - Company pays - Currency code

☐ 401(k) - Coverage

☐ 401(k) - Effective dates

☐ 401(k) - Company pays - Currency code

☐ Address Line 1

Apply Selection Criteria

Process the trigger event if it meets all of the conditions below:

401(k) - Company pa  Equals  jkhkj

Address Line 1 (abc)  Ends with  kuhiku

OR

Figure 21: Result 1

Configure attributes using trigger data, constants, and excel-style functions  
Use excel-style functions from this sidebar to transform using math, date & time, statistics or text formulas. Learn more

Search Functions

Choose the Azure Active Directory Actions in response to Employee Update In HR system:

☐ Create/Reactivate user in Azure AD when employee is created in HR system

☐ Update user in Azure AD when employee is updated in HR system

☐ Terminate user in Azure AD when employee is terminated in HR system

☐ Process Leave or Long Term Leave in HR System to Azure AD

Trigger Data

Selected Trigger Data

1 401(k) - Company pays - Currency code

Back Save Save & Next

Figure 22: Result 2

***Advantages of this approach :***

- One of the most important benefits is that we can create a single service for multiple components.
- Dynamic Data changes can be handled, and values get updated in real time.
- Increases code reusability.
- Ensures smooth data interaction between isolated components.
- Provide abstraction of logic and data is hosted independently.

## **CHAPTER 5 : Summary & future scope of work**

Business processes to onboard new employees and update lifecycle events in AD (or Azure AD) involve manual steps from humans that can take at least two (2) hours to complete per event. This creates inefficiencies and leads to potential security risks after sensitive terminations. A product like Hire2retire ensures that such mishaps don't take place and provide the best experience to employees while reducing cost and saving manual labor.

For Example, Suppose the HR executive of a company wants to keep records of employees of their customer company. She can do so by copying the data for everyone from the contact section of salesforce to an excel sheet. The process seems easy if the number of contacts is around 5-10 but as soon as it crosses a certain number, the process becomes repetitive, cumbersome, and time-consuming. In addition to that, there may be a lot of cases where errors can occur like she can copy the phone number of an employee in other employee information.

This is where 'Hire2Retire' comes into the picture. It is platform that follows the drag-drop and click approach and not only it can automate processes as the one explained above effortlessly but it also Integrates HR software with Identity Management softwares.

Currently, we support 8 HR ecosystem and 2 identity management system.

In Future, RoboMQ is looking forward to adding more ecosystem in the product as Action and Trigger and make employee Lifecycle events smoother for both employees and managers.

## References

- <https://material.angular.io>
- <https://angular.io/docs>
- <https://www.robomq.io/products/hire2retire/>
- [Manage Employee Lifecycle with HR automation | RoboMQ](#)
- [Angular - Introduction to services and dependency injection](#)



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**To Whom-So-Ever It May Concern**

Respected Ma'am/Sir,

This is to certify that Varun Rawat of JK Lakshmipat University has completed his internship from January 3rd 2022 to June 26th 2022 under the supervision of our product leads on our product **RoboMQ- Hire2Retire**.

He has completed his training successfully and his performance was good.  
We wish him a bright future ahead.

DocuSigned by:

*Prachi Sharma*

335A8C28C90444A...

Date: 7/7/2022

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