

DAILY OBJECTS

(A web-based contemporary accessories platform)

PREPARED BY

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**Department of Computer engineering
Institute of Engineering and Technology (IET)
JK Lakshmipat University Jaipur**

May 2022

DAILY OBJECTS

(A web-based contemporary accessories platform)

A report on
Practice School-2

Submitted in partial fulfilment of the requirements

for the degree of

Bachelor of Technology in Computer Engineering

By:
Yash R. Mishra (2018BTechCSE019)

Faculty Guide:
Dr. Alok Kumar



**Department of Computer engineering
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May 2022

CERTIFICATE

This is to certify that the Practice School-2 project work entitled "**DAILY OBJECTS: A web-based contemporary accessories platform**" submitted by **Yash R. Mishra (2018BTechCSE019)**, towards the partial fulfillment of the requirements for the degree of **Bachelor of Technology in Computer 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 a level required for being accepted for Practice School-II examination.



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Dr. Gireesh Kaushik

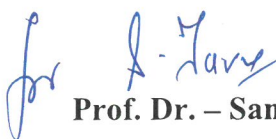
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Prof. Dr. – Sanjay Goel

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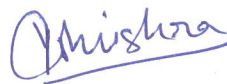
I would like to thank my mentor **Dr. Alok Kumar** to be supportive and helping with any problems I had.

I am happy to have a JKLU Alumni as my industry mentor. **Mr. Chirag Bansal** Has guided me a lot and given my helpful insights to improve my self.

I would like to express my gratitude towards **Daily Objects** to let me have an opportunity as Intern.

Sincerely yours,

Yash R. Mishra (2018BTechCSE019)



List of Figures

Figure 2.2.1 Dummy Response type(not finalized version)	9
Figure 2.2.2 Example of Offer Schema	9
Figure 2.2.3 Success response	10
Figure 3.1.1 New Review Ui – Desktop	13
Figure 3.1.2 New Review Ui – mobile	14
Figure 3.1.3 Recently Viewed	14

Contents

CERTIFICATE	3
DR. ALOK KUMAR	3
DR. GIREESH KAUSHIK	3
PROF. DR. – SANJAY GOEL	3
ACKNOWLEDGEMENTS	IV
LIST OF FIGURES	V
CHAPTER 1 : INTRODUCTION	7
1.1 PROBLEM STATEMENT	7
1.2 WORK OBJECTIVES	7
CHAPTER 2 : WORKFLOW	8
2.1 TRAINING	8
2.2 PAGE/SECTION DESIGN	8
2.3 BUGFIX AND DATABASE CHANGES	11
2.4 ADMIN OPERATIONS AND REPORT SCRIPTS	11
CHAPTER 3 : RESULT, CONCLUSION & FUTURE SCOPE OF WORK	13
3.1 RESULT	13
3.2 CONCLUSION	15
3.3 FUTURE WORK	15
REFERENCES	16
APPENDIX	17

CHAPTER 1 : INTRODUCTION

Daily Objects is a lifestyle Accessories brand, that designs stunning graphics and prints it over wide variety of products, for ex: phone cases, laptop sleeves, hand purse, bags, watch bands etc. They are further delving into new Accessories for expansion. Daily Objects is a home-grown Indian brand with contemporary focus for lifestyle products.

Daily Objects is an e-commerce with its own website. They are a dedicated group to bring new product lineups to the customer quickly and assist them with after sales needs.

Website	www.dailyobjects.com
Industry	E-commerce
Company size	50-100
Headquarters	Gurugram, Haryana, India
Founded	2012
Type	Start-up

1.1 Problem Statement

The importance of an intern at Daily objects tech team is crucial, interns as their starting carrer are made to focus on the type of development they like, full stack, backend, frontend, etc. It is important to grasp details of new task fast and be able to follow up with a solution and discuss with the respective person.

1.2 Work Objectives

- I. Get to understand the working of each repository of DO.
- II. Always update MAR board (Jira tak board) after each step, from being assigned to testing.
- III. Discuss new task and its solution, ex: develop a section to showcase new post of DO Instagram – discuss schema designs, response type according to xd.
- IV. Jump on pending bugs and fix them as per priority of criticality.

CHAPTER 2 : WORKFLOW

2.1 Training

On the joining day of internship, a rundown of project, tech used was given. They provided some reading material as assignments.

1. JavaScript – It is a high-level language which has line by line execution. It is a widely used programming language for www. Programmers use it to render web pages on client side and run queries on backend. It uses ES6 standard (ECMAScript). It makes use of API to work with data structure, text, DOM (Document object Model). Based on ECMAScript, JavaScript itself has no I/O facilities, it is provided by the runtime environment. It is multi-paradigm, supporting event-driven, functional, and imperative programming styles.

2. TypeScript – It is a programming language which is syntactical superset of JavaScript. It is maintained by Microsoft. It is a widely used language for developing large web-based applications. Typescript has a different approach for compilation, all ts files upon execution are converted to js file architecture then recompiled using npm.

For ex: A backend repo is cloned, then npm i is used to install packages. Necessary changes are made then npm start is used. Upon running npm start the first process for the compiler is to check a file json called tsconfig.json where configurations of conversion to js is available, then all the ts conversions are saved in a outer directory of the project, from where npm command picks up js file for runtime execution.

3. Git & Webstorm – Git is a powerful source control tool and with help of webstorm ide, it is easier to commit push, checkout branch. Webstorm has helped in keeping code clean with the help of linting service – eslint.

Webstorm has some unique features to jump to function definitions with shift + left click making debugging easier.

2.2 Page/section Design

As a full stack engineer every page or new section is to be discussed, a response type is discussed first followed by schema design, backend service and route. When the route starts yielding desired route, it is time to work on ui provided by the Design team.

2.2.1 Response

A Response in json format is made to understand what the return type/ final outcome from the specified route would yield in terms of data.

Let us take an example of how it would look like for an in production feature:

```

{
  "title": {
    "text": "DailyObjects"
  },
  "subtitle": { "text": "@dailyobjects_official" },
  "icon": "icon.jpg",
  "activeIndex": 1,
  "social": [
    {
      "description": "Handcrafted with vibrant colours of genuine leather, it effortlessly fits the wrist with sizes between 135mm and 180mm and blends with your way of life.",
      "products": [
        {
          "title": "product1"
        },
        {
          "title": "product2"
        }
      ],
      "link": "instagram",
      "carousel": {
        "image": "image.png"
      }
    }
  ]
}

```

FIG 2.2.1: Dummy Response type(not finalized version)

2.2.2 Schema Design

Once response type is decided upon then schema design process is started. In this we select the field which will be variable and those that may repeat in response itself. As schema is designed an Interface is also decided to show how the data in the collection should be like.

An example of Schema design is similar to response but structural difference is noticeable.

```

{
  "id" : "FREEBIE",
  "code" : "FREEBIE",
  "meta" : {
    "name" : "FREE SCREEN GUARD ON MINIMUM SHOPPING OF RS. 1000"
  },
  "logic" : {
    "coupons" : [
      "free_screen_guard_1000"
    ],
    "time" : {
      "start" : ISODate("2021-02-01T18:30:00.000Z"),
      "end" : ISODate("2023-10-01T18:30:00.000Z")
    }
  },
  "display" : {
    "visibility" : "public",
    "theme" : {
      "background" : "",
      "primary" : "",
      "colorOnPrimary" : ""
    }
  },
  "page" : {
    "lp" : {
      "default" : {
        "title" : {

```

FIG: 2.2.2: Example of Offer Schema

2.2.3 Services

Service is a class which is a collection of logics(methods and functions). When defining a service it should have the same name as the feature/page/section one is working on.

For ex: When a developing new section for home page that may have different network calls(api route) the corresponding service should be named 'newSectionService.ts'.

A service is crucial as it is where all the logics are. It is general convention to never write logic with the route or vice versa.

It is considered safe to keep route service and schema separate.

When the Service and route are completed, we test them with insomnia by creating a personalized CURL and hitting it to check the response received. If the response is similar then we move on to developing UI.

```
{
  "success": true,
  "meta": {
    "redirects": [
      "/fn/nop?"
    ]
  },
  "data": [
    {
      "layoutType": "1-col-banner",
      "layoutContent": {
        "title": {
          "text": "TARP COLLECTION",
          "color": "#FFFFFF"
        },
        "banner": {
          "src": "https://images.dailyobjects.com/marche/collectionPage/tarp/tarp-desktop.jpg?tr=cm-pad_crop",
          "scream": {
            "color": "000000",
            "alpha": "0"
          },
          "banner": {
            "image": null
          }
        }
      }
    }
  ]
}
```

FIG: 2.2.3: Success response

2.2.4 UI

After completing the tedious task of writing logic and response and schema design. We again move back to xd for reference to make ui. As Different repo is maintained we use webstorm to switch the repo and create the branch in which we will working.

2.2.4.1 Setting up

Unlike backend where we need create to directory and file ourselves. Angular has a command to simply the process of creating and binding – `ng g c <name>` . This command creates component in the `pwd` with directory as name provided. It creates all the necessary component needed like, service, module, html, and scss file comonents.

2.2.4.2 Ui development

We start by developing a static outline and div in the html then style them. The service component is used to hit the api and get response stored in a variable which is used in html as data to fill. Angular is powerful framework which allows for seamless binding of data additionally we only need to define div it does compilation on its own pretty well without errors.

After matching the ui developed with the xd, final touches and review progress begins.
After passing all the checks in production stage it readied to push to live

2.3 BugFix and Database Changes

2.3.1 BugFix

The underlying problems that occur after a build goes live. It can be in the very same build or already existing but activated with the new build. Nevertheless each day we get these bugs to fix which allows us to get deeper understanding of services/features we may have never worked on.

Process:

1. A bug is reported by the tester for which a ticket is created and assigned.
2. When one starts working he moves the ticket to in progress from started, some bugs are peculiar and require time and understanding while some are silly mistakes on others behalf. When the developer fixes the bug and tests on his end the ticket is moved to done which means it is now ready to be tested by the tester in the production phase, but before that a pr needs to be created to get approval one or more developer about the working.

2.3.2 Database

Changes in database done by interns are only at production database. Changes are mostly related to updating or adding new collection as required by the type of task.

A very popular tool is Robo3t which is used for executing mongo query and view collections on db server.

2.4 Admin operations and Report Scripts

2.4.1 Admin Operations

All admin related operations like uploading or updating products and filters or updating offer tags, etc. are done by admins. For the desired task we write services to allow them in making changes to database with just a csv sheet.

We follow this process:

1. Read the sheet.
2. If the sheet is too long convert it into batches.
3. Write aggregation query for every task required, then test the query if it works fine, then create pr and get the admin insights on field names, etc.

2.4.2 Report Scripts

Report scripts are .js files that we use for Jenkins jobs, these scripts are time gated and generate report as per desired query.

For ex: A script to generate an order report for 2 months, or total sales or users report.

CHAPTER 3 : RESULT, CONCLUSION & FUTURE SCOPE OF WORK

3.1 Result

The workflow described is standard and has allowed me to develop some features and page allowing me to work as full stack and use my capabilities.



FIG 3.1.1: New Review Ui – Desktop

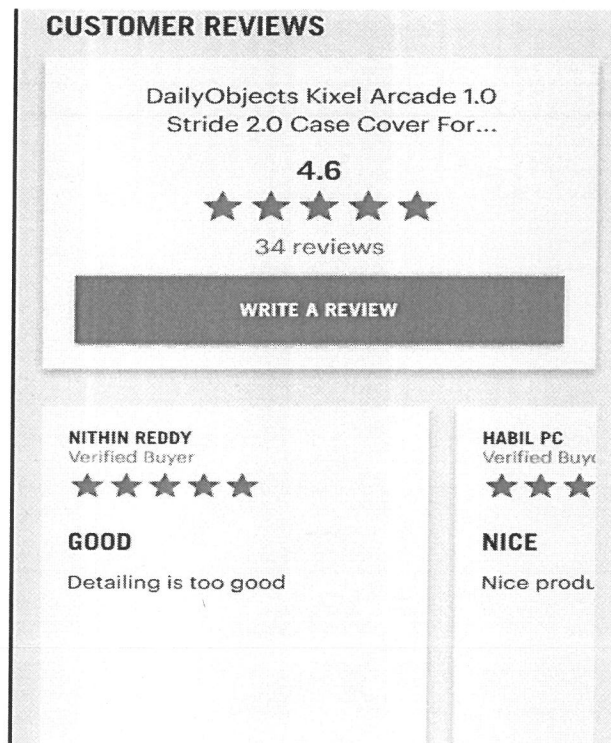


FIG 3.1.2: New Review Ui – mobile

RECENTLY VIEWED



FIG 3.1.3: Recently Viewed Section

****** There are some ui in development which according to organizational policy I cannot disclose until in production testing.

3.2 Conclusion

The training given to me and resource materials provided has allowed me to write industry efficient and clean code. By following structural model it has made easy to traverse and get started on new task relatively easily.

DailyObjects is an e-commerce platform and behind the scenes the teams work hard to deliver customer satisfaction and pleasing ui without hiccups. As we went live in 2020 with the new website, the intern have a lot to follow but handy tools and prompt guidance by the industry expert has allowed us to grasp easily and swiftly.

3.3 Future Work

At Daily Objects we believe in innovation, as long as we have the drive to think we will always release new features and ui improvements with changes in technology. We are already overhauling UI one by one, to improve performance of the website and user interaction.

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APPENDIX

In this appendix not all code lines are added, just a portion to showcase

1. Social page ui Service (Angular)

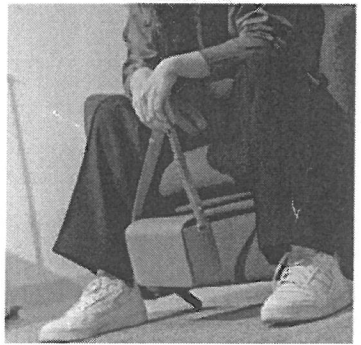
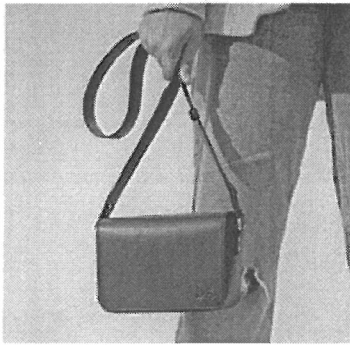
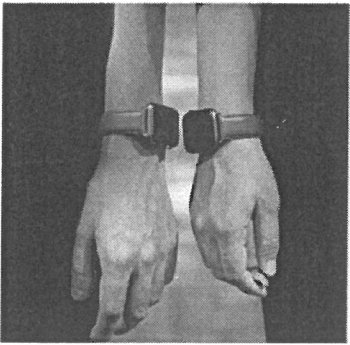
```
@Service("SocialPage")
export class SocialPageService {
  constructor(
    @Inject("ProductService") private productService: ProductService,
    @Inject("ListingPageService")
    private listingPageService: ListingPageService,
    @Inject("SocialSchema") private socialSchema: Model<ISocial & Document>
  ) {}

  async getSocialPage(): Promise<SocialResponse> {
    const social = new SocialResponse(SOCIAL_PAGE.PAGE_TITLE);
    const data: ISocial[] | null = await this.socialSchema
      .find({})
      .sort({ index: 1 });
    if (!data) throw new Error(APIErrors.SOCIAL_DOC_MISSING);
    data.map((item) => {
      return social.feed.push(
        new SocialBanner(
          item.image,
          generateLinkFromFilters(
            PageID.SOCIAL_CONTENT_PAGE,
            [`${FILTER_KEYS.ACTIVE_INDEX}~${item.index}`],
            undefined,
            null,
            {
              refresh: false,
              transient: false,
              popup: true
            }
          )
        )
      );
    });
  }
}
```

FIG: Social page Service

2. Social Page Response

FOLLOW US @DAILYOBJECTS



FOLLOW US @DAILYOBJECTS

DAILYOBJECTS
@dailyobjects_official

Handcrafted with vibrant colours of genuine leather, it effortlessly fits the wrist with sizes between 135mm and 160mm and blends with your way of life.

Rs. 999
Pink Polka Lorem Ipsum Backpack
BUY 2 FOR 1499

Rs. 999
Pink Polka Lorem Ipsum Backpack
BUY 2 FOR 1499

FOLLOW US @DAILYOBJECTS



4. Ui BugFix

 **BUY 1 GET 1 FREE**

 **FREE WALLET/DUFFLE BAG ON ORDERS WORTH 2000/3000**

Offer tags spacing and color performance varies.



Do Membership



Visual and activation changes

DO MEMBERSHIP DETAILS

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Member since 20 April 2022

Valid till 25 April 2023

YOU'VE SAVED Rs.350

Shop more and save more

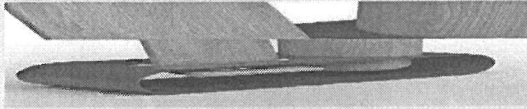
Show user membership on user account page. Visual Bugs.



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A COLLECTION DESIGNED AND MADE IN INDIA
TO ADD SUPERIOR PERFORMANCE AND COMFORT
TO YOUR WORKSPACE.

THE PLATFORM DESK COLLECTION IS A SERIES OF DESK ACCESSORIES THAT ARE DESIGNED TO IMPROVE YOUR WORKSPACE. THE COLLECTION INCLUDES A MONITOR STAND, A PHONE AND PEN HOLDER, A LAPTOP STAND, A MOUNT ADJUSTABLE PHONE STAND, A WOODEN TRAY, AND A DESK ORGANIZER. EACH ITEM IS DESIGNED TO BE FUNCTIONAL, AESTHETIC, AND DURABLE.



MESA MONITOR STAND

THE MESA MONITOR STAND IS A SLEEK, MODERN DESIGN THAT SUPPORTS YOUR MONITOR AT AN OPTIMAL HEIGHT AND ANGLE. IT IS MADE OF A Durable, High-Quality Material That Will Last For Years.

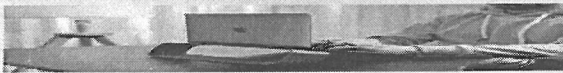
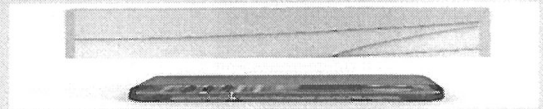
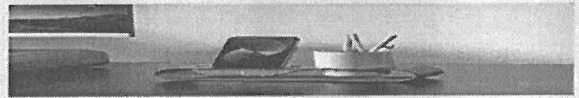
VIEW NOW



CIRQUE PHONE AND PEN HOLDER

THE CIRQUE PHONE AND PEN HOLDER IS A SLEEK, MODERN DESIGN THAT HOLDS YOUR PHONE AND PEN IN ONE PLACE. IT IS MADE OF A Durable, High-Quality Material That Will Last For Years.

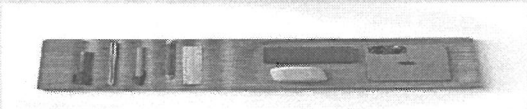
VIEW NOW



MOUNT ADJUSTABLE PHONE STAND

THE MOUNT ADJUSTABLE PHONE STAND IS A SLEEK, MODERN DESIGN THAT HOLDS YOUR PHONE AT AN OPTIMAL HEIGHT AND ANGLE. IT IS MADE OF A Durable, High-Quality Material That Will Last For Years.

VIEW NOW



MATERIAL

THE PLATFORM DESK COLLECTION IS MADE OF A Durable, High-Quality Material That Will Last For Years. The Material Is Made Of A Durable, High-Quality Material That Will Last For Years.

VIEW NOW

VIEW NOW

VIEW NOW



ARETE LAPTOP STAND

THE ARETE LAPTOP STAND IS A SLEEK, MODERN DESIGN THAT SUPPORTS YOUR LAPTOP AT AN OPTIMAL HEIGHT AND ANGLE. IT IS MADE OF A Durable, High-Quality Material That Will Last For Years.

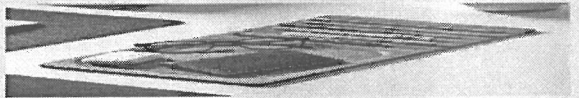
VIEW NOW



STRIATE WOODEN TRAY

THE STRIATE WOODEN TRAY IS A SLEEK, MODERN DESIGN THAT HOLDS YOUR DESK ACCESSORIES IN ONE PLACE. IT IS MADE OF A Durable, High-Quality Material That Will Last For Years.

VIEW NOW



DESIGNER'S PHILOSOPHY

THE DESIGNER'S PHILOSOPHY IS TO CREATE DESK ACCESSORIES THAT ARE FUNCTIONAL, AESTHETIC, AND DURABLE. THE DESIGNER'S PHILOSOPHY IS TO CREATE DESK ACCESSORIES THAT ARE FUNCTIONAL, AESTHETIC, AND DURABLE.



Task Board

TO DO 5 OF 59 ISSUES

MAX: 150

Implement Sonarqube

✓

MAR-1249

✓

YM

cross selling wishlist is not working

✗

MAR-1130

✓

YM

API for social UI

✓

MAR-1223

✓

YM

Create Social UI page

✓

MAR-1292

✓

YM

Remove call to lfp from search page filters

✗

MAR-1291

✓

YM

web

✗

MAR-1291

✓

YM

Create Deploy file on Dev

✓

MAR-1246

✓

YM

IN PROGRESS 3 OF 17 ISSUES

Order created Emailer update

✓

MAR-1178

✓

YM

Add new Address

✗

MAR-1178

✓

YM

Update address form

✓

MAR-1247

✓

YM

DONE

+ Create issue

✗

MAR-1247

✓

YM

Website >> Reviews not showing as per product when user visit product page from recent view/new arrivals/best sellers/you may also like

✗

MAR-1243

✓

YM

Update review page UI

✗

MAR-1243

✓

YM

web

✓

MAR-1289

✓

YM

See all Done issues

✗

MAR-1289

✓

YM