Full Stack Web Development

Partial report in partial fulfilment of the requirement of the

Degree of Bachelor of Technology

In

Computer Science and Engineering

By

Charchit Kapoor (161207)

Under the supervision of

Umesh Sharma

Product Manager (magicPin Samast Technologies Pvt. Ltd)

To



Department of Computer Science Engineering and Information Technology

Jaypee University of Information Technology, Waknaghat, Solan-173234 Himachal Pradesh CERTIFICATE

Candidate Declaration

I declare that the work presented in this report 'Full Stack Web Development' in

partial fulfilment of the requirements for the award of the degree of bachelor of

Technology in Computer Science and Engineering submitted in the department of

Computer Science and Engineering/ Information Technology, Jaypee University of

Information Technology Waknaghat, is an authentic record of my work carried out

over a period of Feb,2020 to May,2020 under the Supervision of Umesh Sharma

(Product Manager, magicPin).

The matter embodied in the report has not been submitted for the award of any other

degree or diploma. It contains sufficient information to describe the various tasks

performed by me during the internship.

C.K

Charchit Kapoor, 161207

This is to certify that the above statement made by the candidate is true to the best of

my knowledge. The report has been reviewed by the company officials, and has been

audited according to the company guidelines.

Umesh Sharma

Product Manager

magicPin (Samast Technologies Private Ltd.)

Dated: May 29th, 2020

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ACKNOWLEDGEMET

We have taken efforts in this project. However, it would not have been possible without the kind support and help of many individuals and organisations. I would like to extend our sincere thanks to all of them.

I am highly indebted to Himanshu Shekhar for his guidance and constant supervision and as well as for necessary information regarding the project and also for their support in completing the project.

I would like to express my gratitude towards my parents and Jaypee University of Information Technology for their kind co-operation and encouragement which helped us in completion of the project.

My thanks and appreciation also go to out to my colleague in developing the project and people who have willingly helped us out with their abilities.

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Chapter - 1

INTRODUCTION

CompanyProfile

Magicpin is the platform where users and merchants in a locality discover, interact, and transact. For merchants, they are the go-to platform for spotlighting their uniqueness while boosting their revenues and utilization through real-time promotions, loyalty programs, and content updates. For users, they are the destination to find out the buzz in their locality and discover interesting people to connect with and events/merchants to go to.Magicpin's headquarters is in Gurgaon, Haryana. Magicpin's main competitors are Crownit, CouponDunia and Nearbuy.

Vision

We are on a mission to make hyperlocal magical. Pin a location on the map to find the coolest people in the neighborhood and where they hangout - from the hippest cafes to the yummiest dimsums, the trendiest fashion boutique, luxurious spas, health clubs, best discounts on grocery stores and more. Find the buzz in your locality through our user generated pictures, videos, reviews to discover interesting people, places and get cashback / rewards for visiting those places. magicpin drives discovery that leads to business for local retailers across categories like restaurant, fashion, beauty, grocery, spa, yoga, gyms, and more. For their spending, users get rewarded in 'magicpin points' that can be used to buy more services and experiences.

History

The company was founded in **2015** by Anshoo, former Venture Partner at Lightspeed India Partners, and Brij Bhushan, former Nexus Venture Partners, who were colleagues at Bain and Co. In 2017, Magicpin has raised \$7 million in Series B round from Lightspeed India Partners, Waterbridge Ventures, and two global family offices.

Customers

Magicpin is by far the leader in offline marketing for retailers in India. They have grown 5x in 2018 and are on track to repeat that in the coming year. This is a massive \$1T market in India - 50x the size of all ecommerce in the country. magicpin has 5 Million+ users and is now live in Delhi, Gurgaon, Noida, Bangalore, Mumbai, Pune, Hyderabad, Chandigarh, Jaip ur, Goa, Chennai, Ahmedabad and is quickly spreading to more cities and countries.

CHAPTER 2

INTRODUCTION TO ASSIGNED JOB

During the internship, various techniques were taught which are as follows:

Introduction to Web Development

HTML

CSS

JAVASCRIPT

GOOGLE CHROME DEVELOPER CONSOLE

REACT JS

NODE JS

CHAPTER 3

MODULAR DESCRIPTION OF JOB

Introduction to Web Development

Goal- To understand the basics of how the web technology works, both at the server and client-side, and how everything combines front-end to the back-end to give a complete web-app.

Explanation-

Full Stack Web Development alludes to the development of both front end(client side) and back end(server side) portion of web application.

Full stack web engineers can configuration complete web application and sites. They take a shot at the frontend, backend, database and maintenance of web application or sites.

Front end is the noticeable piece of site or web application which is liable for client experience. The client straightforwardly interfaces with the front end segment of the web application or site.

Back end alludes to the server-side portion of web application or site with an essential spotlight on how the site functions. It is answerable for dealing with the database through questions and APIs by customer side orders. This sort of site primarily comprises of three sections front end, back end, and database.

Database is the assortment of between related information which helps in productive recovery, addition and erasure of information from database and sorts out the information as tables, sees, patterns, reports and so on.

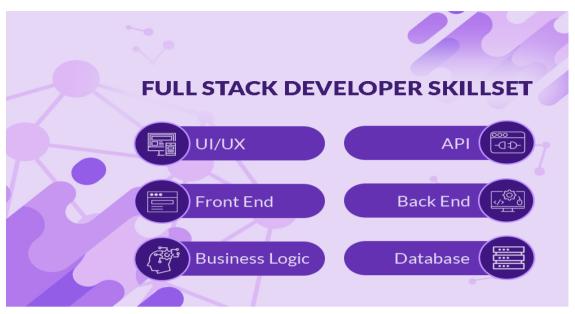


Fig 3.1- Skillset of a full stack web developer

HTML (Hypertext Markup Language)

Goal- To utilize prior knowledge of HTML Fundamentals and become practically familiar with the most usable tags such as div, span, strong, forms, img, hyperlinks etc.

Explanation -

Hypertext Markup Language (HTML) is the standard markup language for archives intended to be shown in an internet browser. It very well may be helped by advancements, for example, Cascading Style Sheets (CSS) and scripting dialects, for example, JavaScript.

Internet browsers get HTML reports from a web server or from nearby capacity and render the records into mixed media site pages. HTML portrays the structure of a site page semantically and initially included signals for the presence of the archive.

HTML components are the structure squares of HTML pages. With HTML builds, pictures and different items, for example, intelligent structures might be implanted into the rendered page. HTML gives a way to make organized archives by indicating basic semantics for content, for example, headings, passages, records, connections, cites and different things. HTML components are depicted by labels, composed utilizing point sections. Labels, for example, and <input/> straightforwardly bring content into the page. Different labels, for example, encompass and give data about archive message and may incorporate different labels as subcomponents. Programs don't show the HTML labels, yet use them to decipher the substance of the page.



Fig 3.2 – HTML symbol

CSS (Cascading Style Sheets)

Goal-To get familiar with basics of styling a webpage using CSS and minifying CSS for more efficiency.

Explanation -

Cascading Style Sheets (CSS) is a template language utilized for portraying the introduction of a record written in a markup language like HTML. CSS is a foundation innovation of the World Wide Web, close by HTML and JavaScript .

CSS is intended to empower the partition of introduction and substance, including design, hues, and fonts. This detachment can improve content availability, give greater adaptability and control in the detail of introduction qualities, empower different site pages to share arranging by determining the significant CSS in a different .css record, and lessen intricacy and redundancy in the auxiliary substance .

Partition of organizing and substance likewise makes it attainable to introduce a similar markup page in various styles for various rendering techniques, for example, on-screen, in print, by voice (by means of discourse based program or screen per user), and on Braille-based material gadgets. CSS additionally has rules for substitute designing if the substance is gotten to on a versatile device.

The name cascading originates from the predefined need plan to figure out which style rule applies if more than one principle coordinates a specific component. This falling need conspire is unsurprising.



Fig 3.3 – CSS symbol

JAVASCRIPT

Goal- To understand the concepts of Javascript such as event-handling, OOPS etc. and use them to create interactive web-apps.

Explanation-

JavaScript frequently shortened as JS, is a programming language that fits in with the ECMAScript determination. JavaScript is elevated level, regularly in the nick of time gathered, and multi-worldview. It has wavy section linguistic structure, dynamic composing, model based article direction, and top of the line capacities.

Nearby HTML and CSS, JavaScript is one of the center advances of the World Wide Web. JavaScript empowers intuitive site pages and is a

fundamental piece of web applications. Most by far of sites use it for customer side page conduct, and all significant internet browsers have a devoted JavaScript motor to execute it.

As a multi-worldview language, JavaScript underpins occasion driven, practical, and basic programming styles. It has application programming interfaces (APIs) for working with content, dates, ordinary articulations, standard information structures, and the Document Object Model (DOM). Notwithstanding, the language itself does exclude any info/yield (I/O, for example, systems administration, stockpiling, or illustrations offices, as the host condition (generally an internet browser) gives those APIs.

JavaScript motors were initially utilized distinctly in internet browsers, however they are presently implanted in certain servers, as a rule by means of Node.js. They are additionally installed in an assortment of uses made with systems, for example, Electron and Cordova.

In spite of the fact that there are similarities among JavaScript and Java, including language name, linguistic structure, and particular standard libraries, the two dialects are unmistakable and contrast enormously in plan.



Fig 3.4 – Javascript Image

GOOGLE CHROME DEVELOPER CONSOLE

Goal- To understand how the data that flows through the app, can be checked in network tab, how console tab helps in logging and how element tab helps in DOM manipulation at runtime.

Explanation-

Web improvement tools (regularly called devtools) permit web engineers to test and investigate their code. They are not the same as web designers and coordinated improvement situations (IDEs) in that they don't aid the immediate formation of a site page, rather they are instruments utilized for testing the UI of a site or web application.

Web improvement tools come as program additional items or inherent highlights in internet browsers. Most well known internet browsers, for example, Google Chrome, Firefox, Internet Explorer, Safari and Opera, have worked in apparatuses to help web designers, and numerous extra additional items can be found in their particular module download focuses.

Web advancement instruments permit designers to work with an assortment of web advances, including HTML, CSS, the DOM, JavaScript, and different segments that are taken care of by the internet browser. Because of expanding request from internet browsers to do more, famous internet browsers have included more highlights designed for engineers.

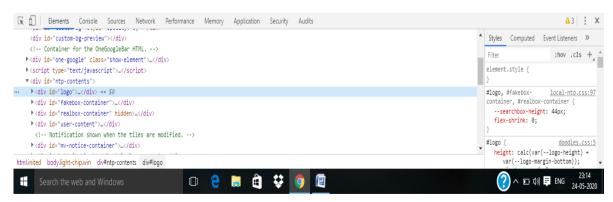


Fig 3.5 – Developer Tools Elements tab to view HTML and CSS.

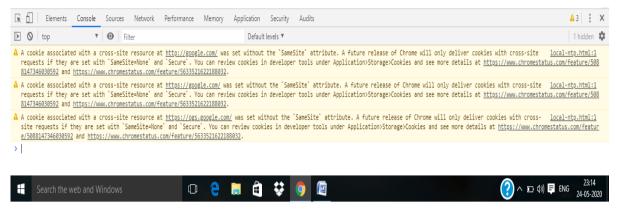


Fig 3.6 – Console tab to run Javascript

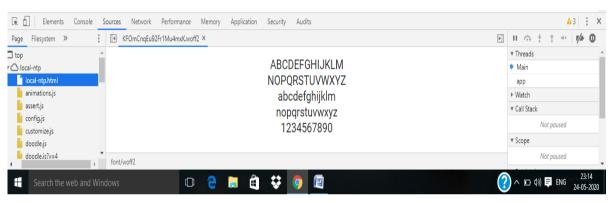


Fig 3.7 – Sources tab lists source files

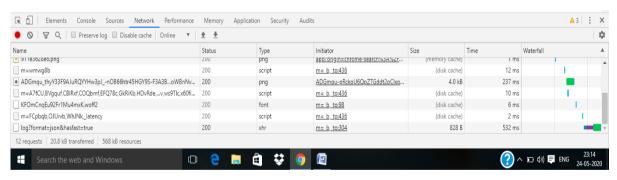


Fig 3.8 – Network tabs show the data fetched over network calls

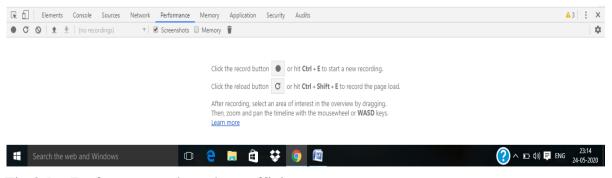


Fig 3.9 – Performance tab to show efficiency.

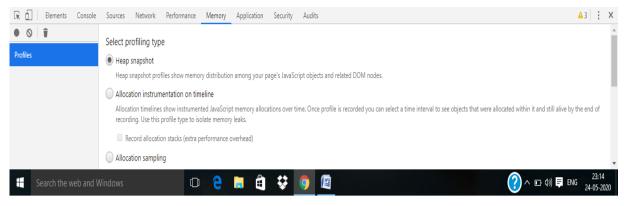


Fig 3.10 – Memory tab shows memory usage

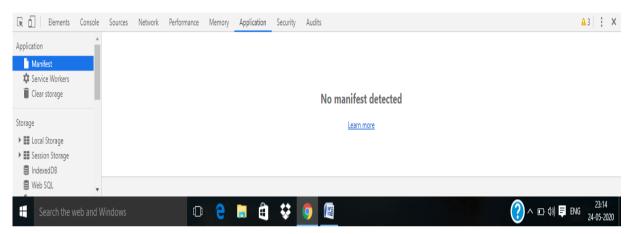


Fig 3.11 – Application tab show total application structure

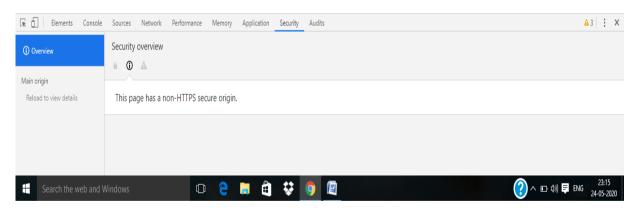


Fig 3.12 – Security tab reviews security

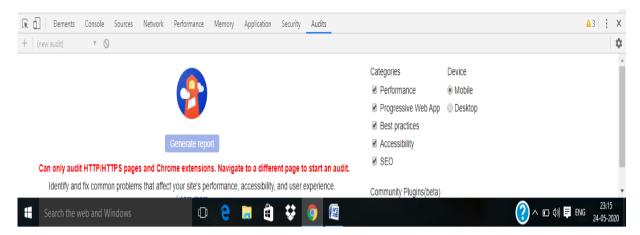


Fig 3.13 – Audit tab shows various miscellaneous features.

REACT JS

Goal- To understand the architecture of front-end development using react framework developed by the Facebook.

Explanation-

React (otherwise called React.js or ReactJS) is an open-source JavaScript library for building UIs. It is kept up by Facebook and a network of individual designers and organizations.

React can be utilized as a base in the advancement of single-page or portable applications. Be that as it may, React is just worried about rendering information to the DOM, thus making React applications for the most part requires the utilization of extra libraries for state the executives and directing. Redux and React Router are individual instances of such libraries.

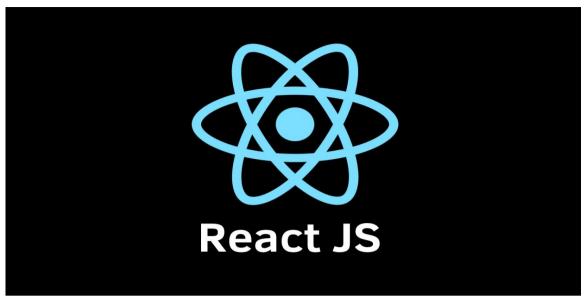


Fig 3.14 – React Symbol

NODE JS

Goal- To understand the basics of backend development using node js and to host a server using express js.

Explanation -

Node.js is an open-source, cross-stage, JavaScript runtime condition that executes JavaScript code outside of an internet browser. Node.js lets engineers use JavaScript to compose order line devices and for server-side scripting—running contents server-side to deliver dynamic website page content before the page is sent to the client's internet browser. Subsequently, Node.js speaks to a "JavaScript all over the place" worldview, bringing together web-application improvement around a solitary programming language, as opposed to various dialects for server-and customer side contents.

However .js is the standard filename expansion for JavaScript code, the name "Node.js" doesn't allude to a specific document in this unique circumstance and is only the name of the item. Node.js has an occasion driven design equipped for offbeat I/O. These plan decisions mean to upgrade throughput and adaptability in web applications with many info/yield tasks, just as for continuous Web applications (e.g., ongoing correspondence projects and program games).

The Node.js disseminated advancement venture was recently represented by the Node.js Foundation, and has now converged with the JS Foundation to frame the OpenJS Foundation, which is encouraged by the Linux Foundation's Collaborative Projects program



Fig 3.15 – Node Js Symbol

CHAPTER 4

ANALYSIS OF THE TASKS PERFORMED

FRONT-END

1. Brand Panel: In this panel, all the information related to various brands is shown. Data is displayed in the form of various graphs, representing the sales on the basis of various time periods such as on daily, weekly and monthly basis. Also, there are graphs representing the best city, locality, where the sales of that brand has occurred in the recent times. The competitor data is also shown in the form of various graphs.

Created a dialog box to be displayed, on verification of a transaction, and set buttons color using CSS. The screenshot shown below displays a webpage where the verification of billed transaction is done. An algorithm detects the items printed on the bill using machine learning and image processing techniques and then verification is performed on these listed items. If the verification is possible, the transaction is submitted, otherwise the transaction skipped and the dialog box gets displayed.

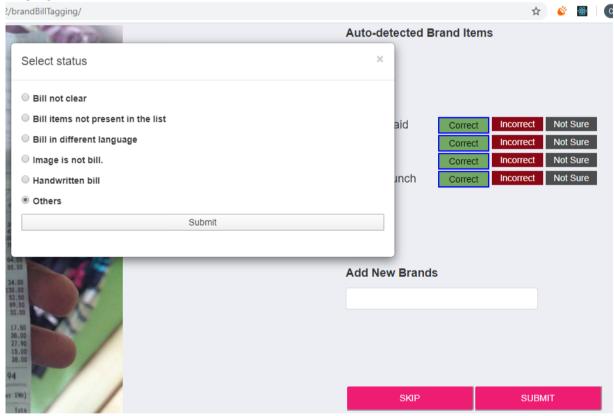


Fig 4.1.1 - Dialog Box to verify a transaction

2. Retail Panel: This panel lists all the information related to the retail merchants. These merchants are categorized as retail-merchants, online merchants etc. On retail panel, we have four various web pages namely, Home, Voucher, Customers, and Feedback. The home page displays the data related to the merchant campaigns. The voucher page shows the vouchers offered on the magicpin platform by the merchants, campaign wise. The customer page shows customers related data and feedback page presents user-feedback.

Created global filters to change the information displayed on the webpage as the dates are changed or campaign is changed. There are two global-filters, one that allows switching between the campaigns and another, that changes the dates for which the data is displayed. These dates can be set manually by the user, along with some default options.



Fig 4.2.1 – Global Filters

Created and wired the data for the Growth Graph, using react chart-js library. The Growth Graph displays percentage wise growth of a merchant in recent times. It's view can be changed on daily, monthly and weekly basis. This graph provides comparison data for a merchant for the various competitors in its categories.

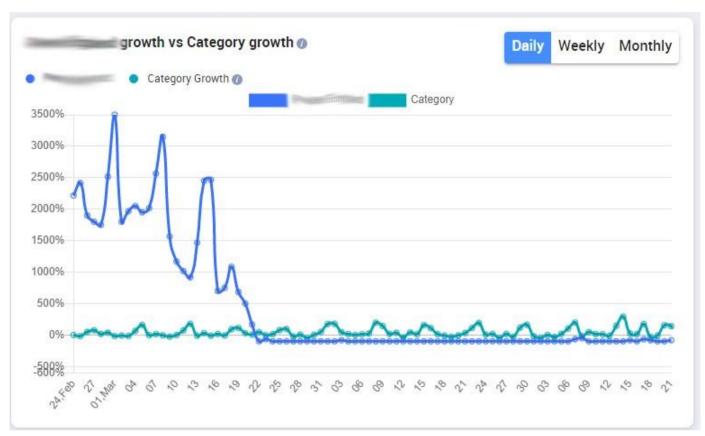


Fig 4.2.2 – Growth Chart

Updated the design of the Goal Tracker. The goal tracker represents the current campaign details, the mission and how its progressing over the period of time.



Fig 4.2.3 – Goal Tracker

Updated the design of Sales Chart to use react chart-js library. This chart displays the sales and orders data for the merchant in the current campaign. It is a stacked bar chart.

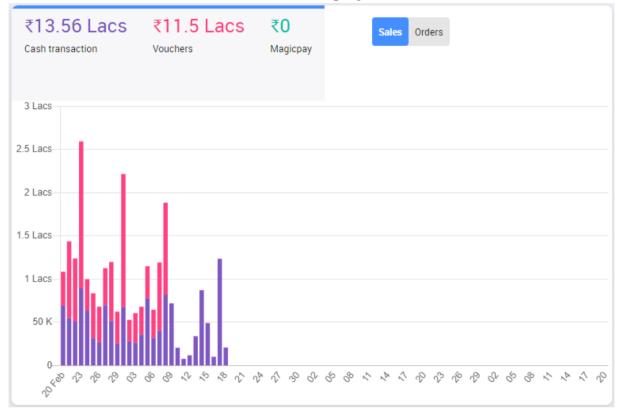


Fig 4.2.4 - Sales Chart

The New Customer Distribution and the losing customers graph are pie-charts. The new customer distribution graphs represents the distribution of customers along the various competitor brands in recent times. And the losing customer distribution shows how the customers of the current brands are shifting towards the other competitors.



Fig 4.2.5 – Gaining and Losing Customers

Created the design and wired the data for repeat-frequency graph. This graph shows the percentage of customers who have the transacted more than 2, 3, 4, 5 times.

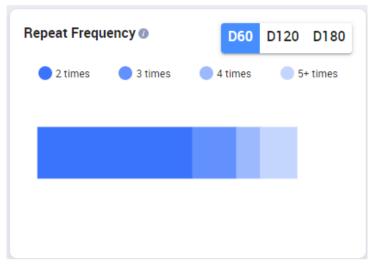


Fig 4.2.6 – Repeat Frequency Chart

Created the design customer preferences chart, with horizontal slider using the react slick library. This graph shows customer preferences locality-wise and city-wise.

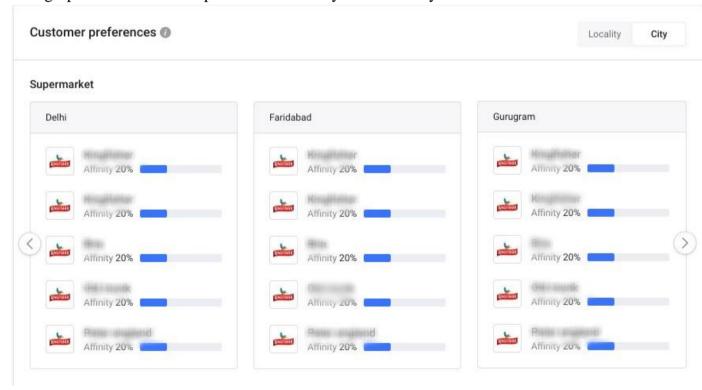


Fig 4.2.7 – Customer Preference

Developed the component for customer profile chart and wired its data. This component displays the distribution of customers for the merchant across genders and the average age of the customers. Same data is shown for the competitors.



Fig 4.2.8 – Customer Profile

Updated the design of Time/Week Chart to use react chart-js. This graph shows how the transactions of the customer varies according to various different times in the day. There is also another option to check how data varies according to various days in the week.

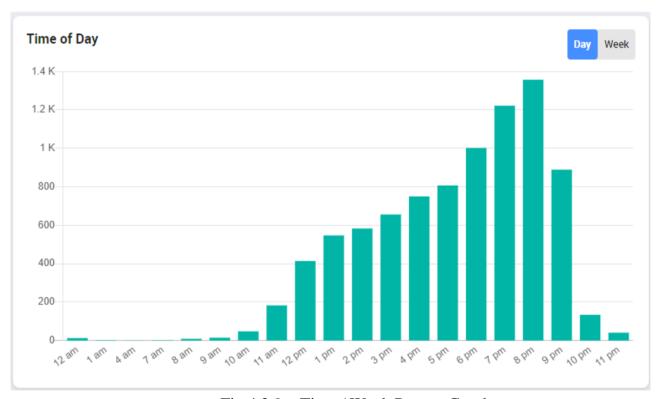


Fig 4.2.9 – Time / Week Pattern Graph

Created the design of Average order value Chart and wired the data for it. This chart shows what is the average value of the customers for the current merchant and its various competitors on the magicpin platform.

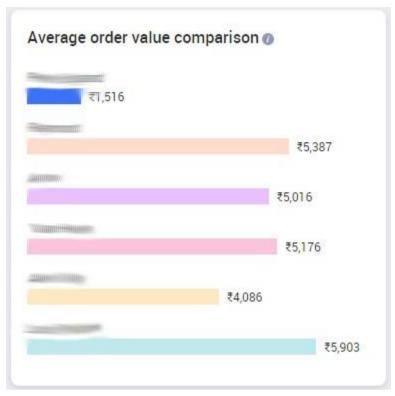


Fig 4.2.10 – Average Order Value Chart

Created Potential Chart which calculates potential audience for a merchant. This is a form which allows a merchant to fill details such as city, age, gender, category and the average amount of spend. Based on this data, the target audience for the merchant.

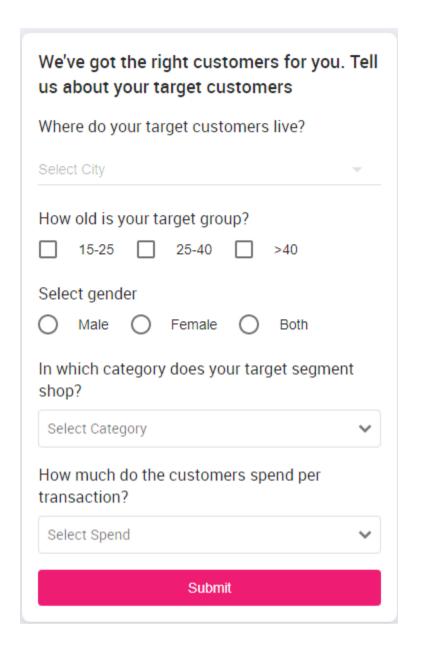


Fig 4.2.11 – Potential Chart Form

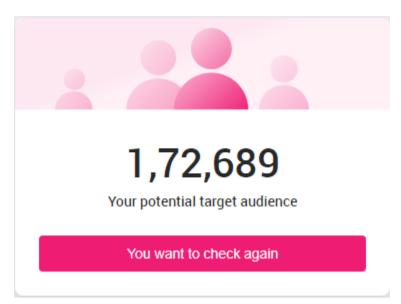


Fig 4.2.12 – Potential Chart Outcome

Wired the feed data on vouchers page for retail-panel. This feed represents the offers provided by the merchants throughout their campaigns on the magicpin platform.

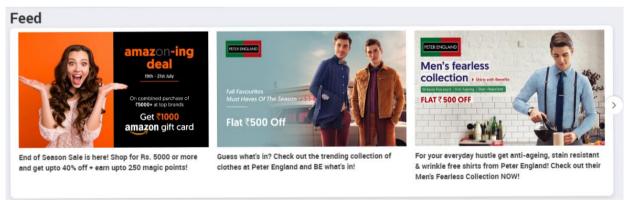


Fig 4.2.13 – Feed on Vouchers Page

3. Online – Panel: This panel lists the data of the online merchants. It has various components such as Sales graph, conversion funnel, customer preferences, voucher details, goal tracker, customer profile and city distribution and global filters.

Created the design and wired the data for the sales chart. This chart represents the sales and orders values for the current merchant. Both of these data varies on daily, weekly and monthly basis. In the value tab, average order values is displayed as a line graph with respect to the secondary y-axis and the voucher data is displayed as a bar chart with respect to the primary y-axis. The order tab represents the orders on a bar chart.

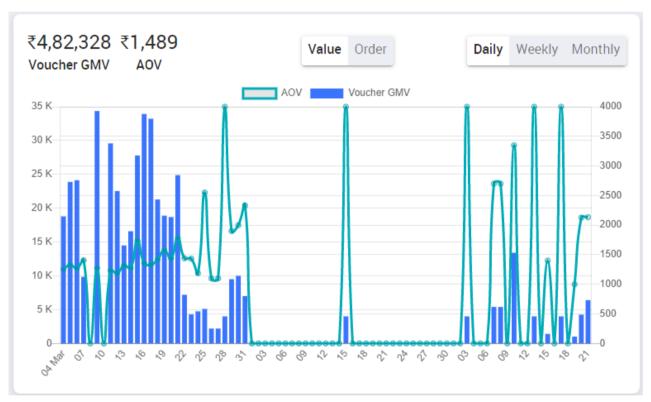


Fig 4.3.1 – Sales Chart with values tab selected



Fig 4.3.2 – Sales Chart with orders tab selected.

Created the conversion funnel component and the voucher - details table. The voucher-details table shows the voucher variant displaying the information about the voucher, total number of vouchers sold, total number of vouchers redeemed and the amount of user spend. The conversion funnel graphs shows how many times the merchants portal has been viewed, how many views have been have been converted into clicks and how many clicks have changed into transactions.

Vouchers detail

Voucher variant	Voucher Sold	Voucher Redeemed	User Spend
Get Rs.500 off on minimum purchase of Rs.999	383	155	₹1,65,395
Get Rs.700 off on minimum purchase of Rs.1399	438	140	₹2,34,660
Flat Rs.1000 off on Leaf Pods Wireless Earbuds	725	19	₹75,981
Flat Rs.250 Off	76	10	₹6,292
Total	1622	324	₹4,82,328

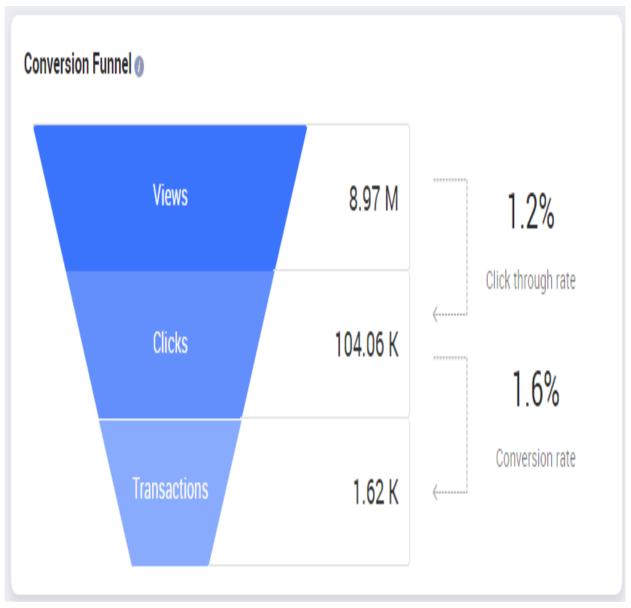


Fig 4.3.3- Vouchers Details Table and Conversion Funnel

Developed the Customer Preference Chart and wired its data. This chart represents the customer preference in various categories such as Food and Beverages, Fashion, Grocery etc.

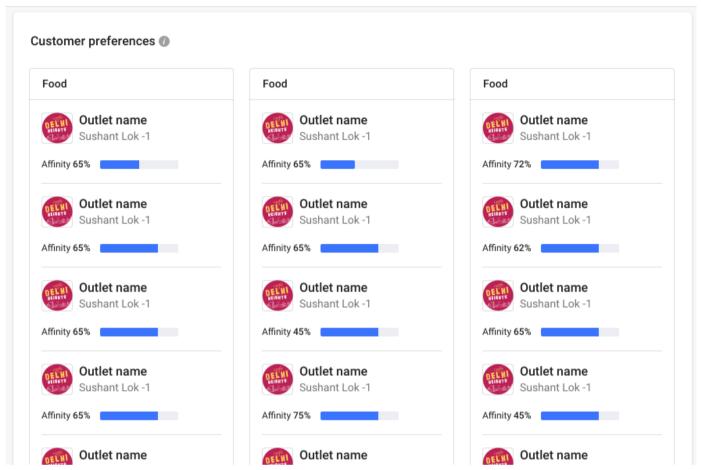


Fig 4.3.4 – Customer Preference Chart

Developed the Customer Profile and City Distribution component. The customer profile represents the percentage distribution of customer gender-wise and in various age groups. The city distribution chart is a pie-chart which shows the distribution of orders for the merchant in various cities.

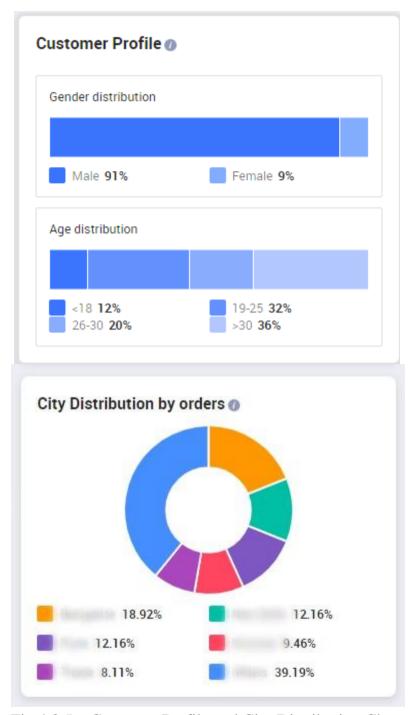


Fig 4.3.5 – Customer Profile and City Distribution Chart

BACK-END

- Written restful API's (Application Programming Interface) for the city distribution chart and customer profile for the online panel and for the potential chart on the retailpanel.
- Performed caching of data using various data structures, so that database isn't referenced on each API call.

.

CHAPTER 5 CONCLUSION

As an undergraduate of the Jaypee University of Information Technology I would like to say that this internship program is an excellent opportunity for us to get to the ground level and experience the things that we would have never gained through going straight into a job. I am grateful to the Jaypee University of Information Technology and magicpin(Samast Technologies Private Ltd.) for giving me this wonderful opportunity.

The main objective of the internship is to provide an opportunity to undergraduates to identify, observe and practice how engineering is applicable in the real industry. It is not only to get experience on technical practices but also to observe management practices and to interact with fellow workers.

It is easy to work with sophisticated machines, but not with people. The only chance that an undergraduate has to have this experience in the internship. I feel I got the maximum out of that experience. Also I learnt the way of work in an organization, the importance of being punctual, the importance of maximum commitment, and the importance of team spirit.

In my opinion, I have gained lots of knowledge and experience needed to be successful in a great engineering challenge, as in my opinion; Engineering is after all a Challenge, and not a Job.

MagicPin (Samast Technologies Private Ltd.)

The internship that I received at magicPin was great experience for me not only on technical terms but also in terms of interaction with other employees. I learnt a great deal on applying the knowledge I have gained at the College. Learning something from books and lectures Is nothing like having firsthand experience. I gotto apply my Programming knowledge. The company gives the full freedom to the interns to get a sufficient exposure. The interns are allowed to perform tasks relevant to the internship. Engineers are always very enthusiastic on giving us the best training Page experience. The employees do not think of their designation but only on the work to be done. Teamwork has been excellent. Everyone was friendly from top to bottom. Employees are busy with their work but they always help us to improve our knowledge.

CHAPTER 6

BIBLIOGRAPHY

- https://javascript.info/
- https://reactjs.org/
- https://stackoverflow.com/

Full Stack Web Development

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