LAUNDRY SERVICES

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ABSTRACT

This project involves building an android application on laundry services using REACT NATIVE. The main aim of using "react native" is to make the application available both for ANDROID as well as IOS devices as it is a cross platform software. Thousands of apps are using "react native" for example-Instagram, Facebook, Walmart, F8, Tesla, Gyroscope, Wix.com etc. React Native uses the same fundamental building blocks of UI put together using JavaScript and REACT. The main aim of building an application on laundry services is, Now-a-days one of the greatest problem faced by working class people as well as students is getting their clothes washed on time. Also many potential dhobis are unable to find work. Through this application we are basically trying to connect the customers and dhobis where both the customer as well as dhobi can be mutually benefitted

Keyword – *React Native, Android, IOS.*

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1. INTRODUCTION

In recent times appearance has become a vital part in every persons' life, providing laundry service to the people in need can prove to be an effective way of doing business. These laundry services can be made accessible to the public with the help of a user friendly application. A mobile application is something which provides an interface between the service provider and the customer. A mobile application can built on several platforms, android and ios. Android uses java and ios uses swift. But to create an application for both ios and android at the same time is difficult. To, handle this situation cross platform languages are used, the most recent and successful one being 'React Native'.

1.1 Objective

The main aim of building an application on laundry services is, Now-a-days one of the greatest problem faced by working class people as well as students is getting their clothes washed on time. Also, many potential dhobis are unable to find work. So, through this application we are basically trying to connect the customers and dhobis', where both the customer as well as dhobi can be mutually benefitted. This project involves building an android application on laundry services using REACT NATIVE. The main aim of using "react native" is to make the application available both for ANDROID as well as IOS devices as it is a cross platform software. Thousands of apps are using "react native" for example-Instagram, Facebook, Walmart, F8, Tesla, Gyroscope, Wix.com etc. React Native uses the same fundamental building blocks of UI put together using JavaScript and REACT.

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1.2 Organization of the report

The report is divided into 4 parts and each part deals with the different aspects of the system.

(i)System Design: This part talks about the existing system, how they are designed and the issues associated with them. Furthermore, it describes the features of the system proposed and the requirements for operating it.

(ii)Module Description: This part describes each module implemented in the system, i. e., how the data is processed in each and what are the steps involved from the user's point of view . Each module is diagrammatically represented so that there is a clear understanding about what happens at that particular step.

(iii)System Implementation: This part deals with an overview of the platform for which the system is developed for. It also talks about the parameters needed for running the system and provides a sample of code used, along with screenshots of the output.

(iv)Conclusion: This part concludes the report and discusses the possible enhancement that can be implemented in the future improve the quality.

2. Existing System

WASSUP LAUNDRY

Wassup sends someone to your house to pick up garments to be washed. They inspect, tag clothes accordingly because every fabric has its own washing instruction which we don't pay attention to usually**.** They wash, iron and deliver. Regular delivery in 4 days and express in 24 hours. Each of their facility has a capacity to wash 5 tons of garments a day. Their aim is to create an affordable destination for all garment washing. They are targeting working professionals in cities who don't have a support system. Wassup will take care of all their washing needs. For 40 garmetns a month, the company charges Rs. 1,299 — which includes two home visits, ironing and delivering back at home.

LAVADO

Lavado is a young company with focus on simplifying garment care. They believe everyone likes their clothes clean and fresh. However laundry as a chore is a hassle which no one likes. Lavado is here to make this activity a simple, happy and a convenient experience. It works with industry's best cleaning professionals dedicated to provide you with best quality in dry cleaning. Even with 24-48 hours of turnaround time, lavado has built in multiple layers of inspection to ensure that users always get the best in class dry cleaning experience. Its simple system and incredible customer service will take the thinking out of users dry cleaning hassle, so that you can focus on more important things.

LAUNDRAPP

Laundrapp is the UK's leading online dry cleaning & laundry service offering unparalleled levels of service and quality cleaning right across London & the rest of the UK. It is a 5-star laundry service replaces the need for using local launderette or dry cleaner and offers a quick & convenient laundry pick up service directly at home. Whether it is dry cleaning shirts, suits, blouses or dresses, or looking for a quality duvet cleaning service, Laundrapp offers the best quality and professional service directly at the user's doorstep. It even offers a fully outsourced ironing service so the users never need to worry about ironing again.

2.1 Proposed System

The goals and motives of the companies who are well established in the business are bit different from our goals and motives. They are providing their own laundry service, and we are just creating a small interface where the people in need of the laundry service and the launderers providing the service are connected and communicate through the app. So that the laundries can have their own laundry service platform. Using online laundry service has many advantages. User can give clothes to the laundry even if he/she is busy or not able to do laundry on their own from any phone or tablet that's connected to the Internet.

3. MODULES

3.1 Introduction

Our complete project deals with the different modules based on the working. The project consists of various modules as described below:

3.2 List of modules

The list of modules to performed are given below

- Registration Module
- Laundry Locater Module
- Order Placement Module

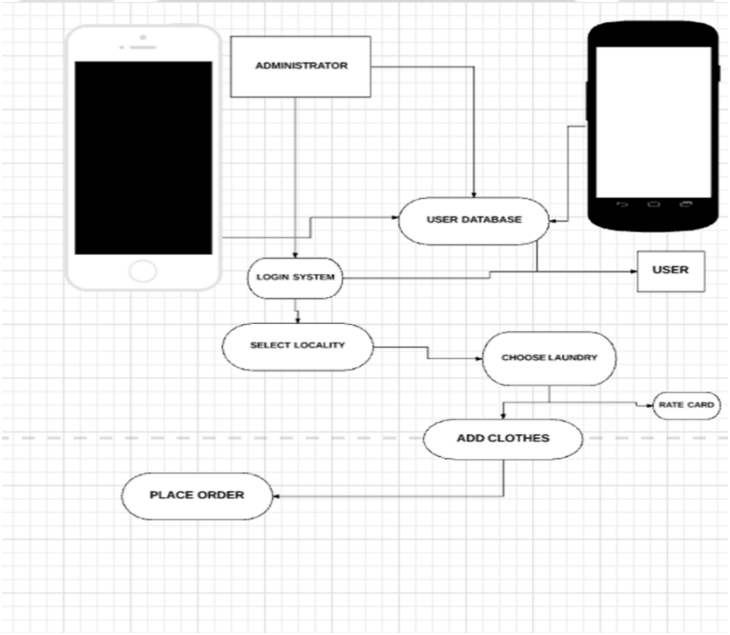

Fig 1:- Architecture Diagram

3.3 Description

Registration Module

The registration module consists of 3 pages namely

1. Registration or Signup page

2. Login page

3. Forgot password page

1. Registration Page: This page of the app is only for the users who are using the app for the first time. Also registration is compulsory for new users. If the person is already registered for the app then he/she can just directly click on the login button present at the bottom of the page.

2. Login Page: This page allows the already existing users to access the app by providing their login details like email id and password. Also there is an included feature in this page which allows the users to keep their account logged in even if they close the app. If the user has forgotten the password then there is a "forgot password" button. By clicking on it the user can reset the password.

3. Forgot password Page: This page helps the user to reset the password.

Laundry Locater Module

This module consists of 2 pages namely:

1. Finding your location

2. Choosing a laundry

1. Finding your location: This pages helps you to find your exact location or else there is also a manual entry for the address of the user. After finding the location the redirects to the laundry selection page.

2. Choosing a laundry: This page displays the list of all laundries available to the user present in their current location and helps to choose the laundry.

Order Placement Module

This is final module for the app. It consists of 3 pages namely:

1. Laundry Rate Card

2. Add clothes

3. Order Confirmation

1. Laundry Rate Card: After selecting the laundry a rate card for the laundry is displayed. If the user is ok with the rates mentioned by the laundry then he/she accepts the rate card andn proceeds to the add clothes page.

2. Add clothes: Here the user has to add the type of clothes and the number of that specific cloth. Once the user enters all the clothes and their quantity, user has to confirm the order by pressing on the confirm order button.

3. Order confirmation: After pressing the confirm order button the user is redirected to this page wherein all the details of the order placed are displayed like, cloth type and its quantity along with their individual charge and at the bottom the total amount to be paid is displayed.

At the end a user receives a confirmation via text message and also the details of the person who will come and pick up the clothes at a specified time.

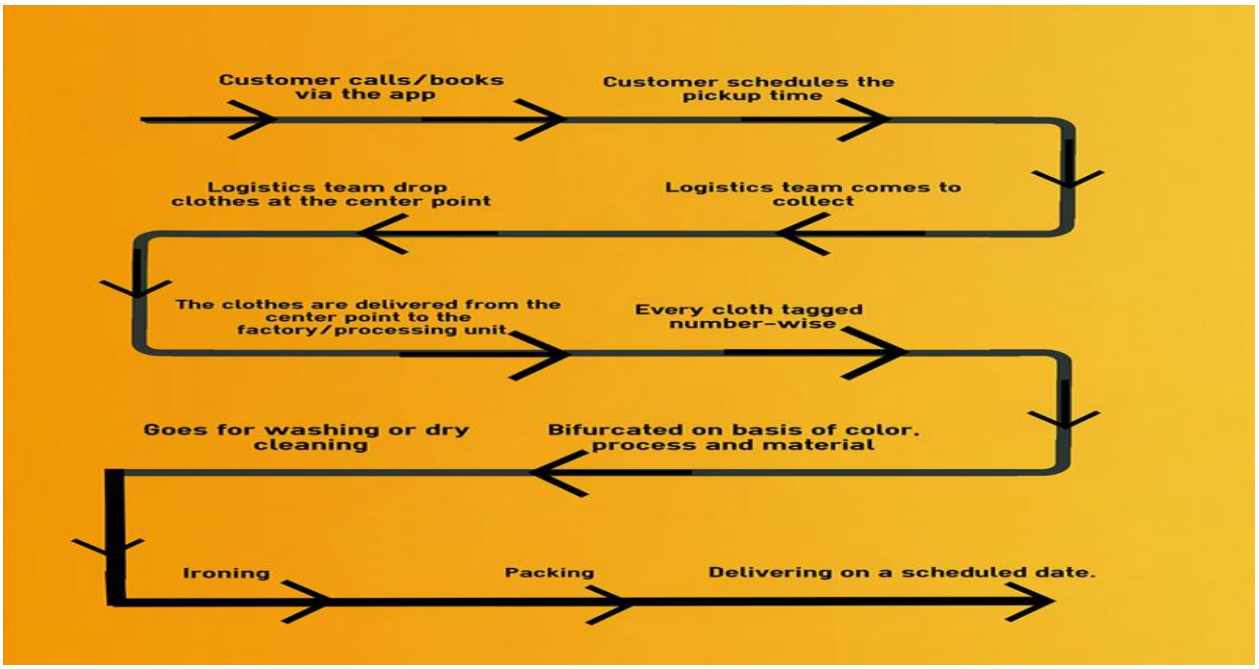

Fig 2:- Process Description

Summary

Thus the above modules describe the working of the application. All modules are explained in detail. It is expected that the proposed system can be used as a real-time application.

4. SYSTEM IMPLEMENTATION

4.1 Introduction

In this chapter implementation of the system is described in detail. Here the detailed coding is given for creating login and registration pages. The Platforms like HTML, JavaScript, CSS, React js etc. Plays a major role.

4.2 Overview of the platform

- **HTML**

Hypertext Markup Language (HTML) is the standard markup language for creating web pages and web applications. With Cascading Style Sheets (CSS) and JavaScript it forms a triad of cornerstone technologies for the World Wide Web. Web browsers receive HTML documents from a web server or from local storage and render them into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.
HTML can embed programs written in a scripting language such as JavaScript which affect the behavior and content of web pages. Inclusion of CSS defines the look and layout of content. The World Wide Web Consortium (W3C), maintainer of both the HTML and the CSS standards, has encouraged the use of CSS over explicit presentational HTML since 1997.

- **JavaScript**

JavaScript often abbreviated as JS, is a high-level, dynamic, weakly typed, object-based, multi-paradigm, and interpreted programming language. Alongside HTML and CSS, JavaScript is one of the three core technologies of Web content. It is used to make webpages interactive and provide online programs, including video games. The majority of websites employ it, and all modern web browsers support it without the need for plug-ins by means of a built-in JavaScript engine. Each of the many JavaScript engines represent a different implementation of JavaScript,

all based on the ECMAScript specification, with some engines not supporting the spectrum fully, and with many engines supporting additional features beyond ECMA.
Although there are strong outward similarities between JavaScript and Java, including language name, syntax, and respective standard libraries, the two languages are distinct and differ greatly in design; JavaScript was influenced by programming languages such as Selfand Scheme.

- **CSS**

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language. Although most often used to set the visual style of web pages and user interfaces written in HTML and XHTML, the language can be applied to any XML document, including plain XML, SVG and XUL, and is applicable to rendering in speech, or on other media. Along with HTML and JavaScript, CSS is a cornerstone technology used by most websites to create visually engaging webpages, user interfaces for web applications, and user interfaces for many mobile applications.
Separation of formatting and content makes it possible to present the same markup page in different styles for different rendering methods, such as on-screen, in print, by voice (via speech-based browser or screen reader), and on Braille-based tactile devices. It can also display the web page differently depending on the screen size or viewing device. Readers can also specify a different style sheet, such as a CSS file stored on their own computer, to override the one the author specified**.**

- **REACT JS**

React.js (also known as React JS or simply React) is an open-source JavaScript library developed by Facebook that uses server-side rendering and the Virtual DOM to provide a performance-oriented solution for building user interfaces. It is maintained by Facebook, Instagram and a community of individual developers and corporations. React allows developers to create large web-applications that use data and can change over time without reloading the page. It aims primarily to provide speed, simplicity, and scalability. React processes only user interfaces in applications. This corresponds to View in the Model-View-Controller (MVC) pattern, and can be used in combination with other JavaScript libraries or frameworks in MVC, such as AngularJS.

5. CONCLUSIONS

In system implementation, all the details regarding the creating and implementation of the project have been mentioned. Thus, the proposed system has been executed successfully.

6. ACKNOWLEDGEMENT

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