

Integrated Multi-Functional App for Student Skill Progress and Management Using REACTJS

Desina Yoga Durganath, Vijayalakshmi S

ABSTRACT--- *The mobile applications advancement industry has been creating at a quick pace. The different working frameworks accessible in the market are various and this demonstrates to be a deterrent to application designers while building up a native application for all the working frameworks. Hybrid stage mobile applications help in cost cutting and sparing time and additionally giving segments to less demanding improvement of applications which give a local vibe to the client. In this project we use React JS to create applications which helps in reuse of code and components. Using JavaScript makes the app faster and more energy efficient. This project is to help students helps students in the progress of their skills, improve them using resources provided by the application. It also helps the students in generating interactive Resume, event updates. With the help of accessories provided in the application students can do their works quicker and in a planned manner over traditional methods, which reduces time to plan and complete tasks.*

Index Terms: CSS, HTML, JavaScript, Node JS, React JS

I. INTRODUCTION

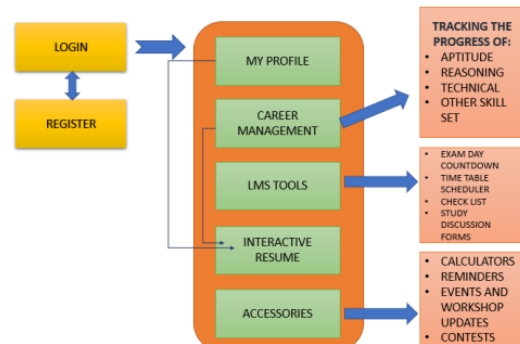
As building graduates get ready to enter the workforce, they should explore an inexorably intricate procedure of realizing where to search for a vocation, what to look like, and how to get employed. Moreover, 40% of science four-year certification beneficiaries leave designing inside three years of graduation. So as to manufacture a differing and exceedingly talented workforce, explore is expected to all the more likely handle the understudies' basic leadership process and the environment of assets and backings they draw upon as they look for their first post-undergrad work. To address these concerns, the Student Information Management And Tech Solution (SIMATS) can be used by students in maintaining the progress and information management. It helps in building steps for their career development. This app uses React.js coding, which helps in reuse of code various platforms (such as Web Apps and Hybrid Apps). React JS basically is an Open Source JavaScript library which is used for building UI specifically for single page applications. It's used for handling view layer for web and mobile applications. React also allows to create reusable User Interface components. React library was first created by Jordan Walke, software developer at Facebook. React allows developers to create large web-based apps which can change data without reloading the page. It works only on UI in

application. The main purpose of ReactJS is to be fast, simple, and scalable. This corresponds to view in the MVC (Model-view-controller) template. It can also be used with other frameworks or JavaScript libraries, such as Angular JS. We can render React on the server-side. Easy to know how a component is rendered, just look at the render function. JSX makes it easy to read the code of your components. It is also really easy to see the layout, or how components are plugged/combined with each other. it is easy to test, and can also integrate some tools like jest. it ensures readability and makes maintainability easier. We can use React with any framework as it is only a view layer.

II. PROBLEM STATEMENT AND METHODOLOGY

- JavaScript was more energy efficient in 75% of all benchmarks, while their Java counterparts consume up to 36.27x more energy.
- Students need to focus on studies. They may get difficult to find proper website for getting resource. They will surf the web to find links and it takes a lot of time.
- This system thereby reduces data redundancy and prevent data inconsistency.
- Students need to remember their exams dates and make plan to study based on no of days left. To maintain count down of every exam and event it takes lot of effort and time.
- There are many such kind of problems students' needs to do, those can be done through this app which make things much faster than routine.

III. SYSTEM ARCHITECTURE



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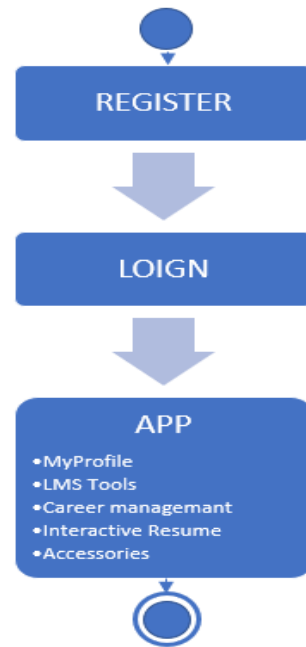
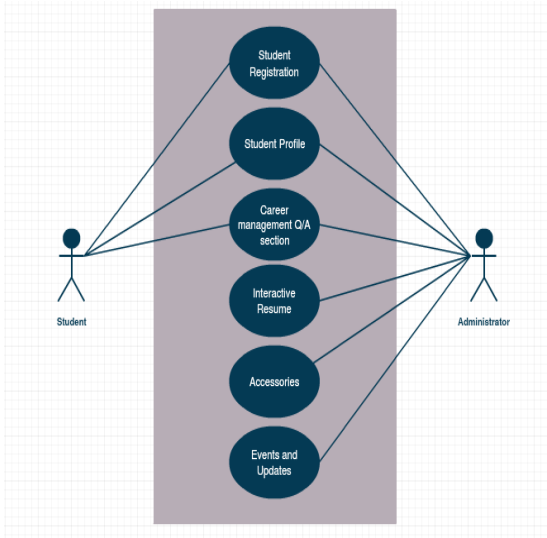
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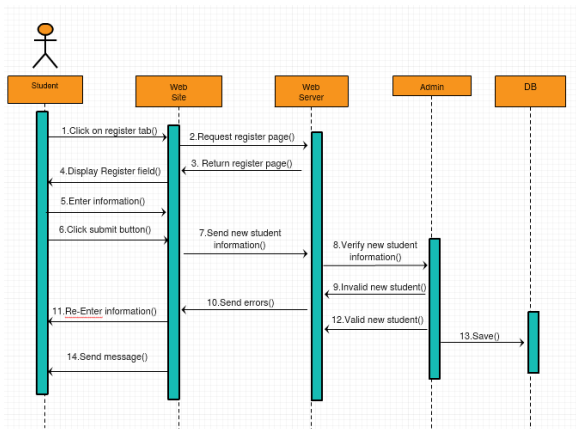
INTEGRATED MULTI-FUNCTIONAL APP FOR STUDENT SKILL PROGRESS AND MANAGEMENT USING REACTJS

UML DIAGRAMS

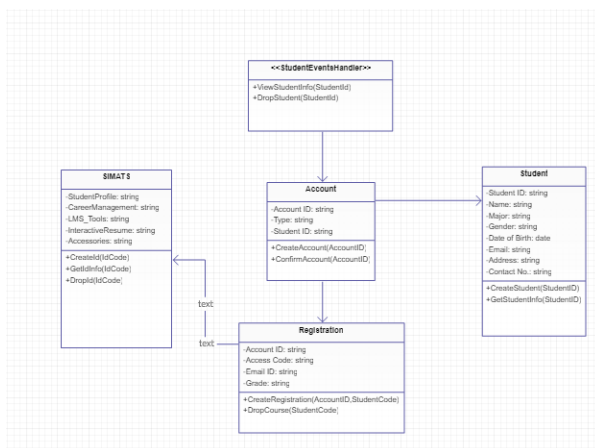
3.1 USE CASE DIAGRAM



3.2 SEQUENCE DIAGRAM



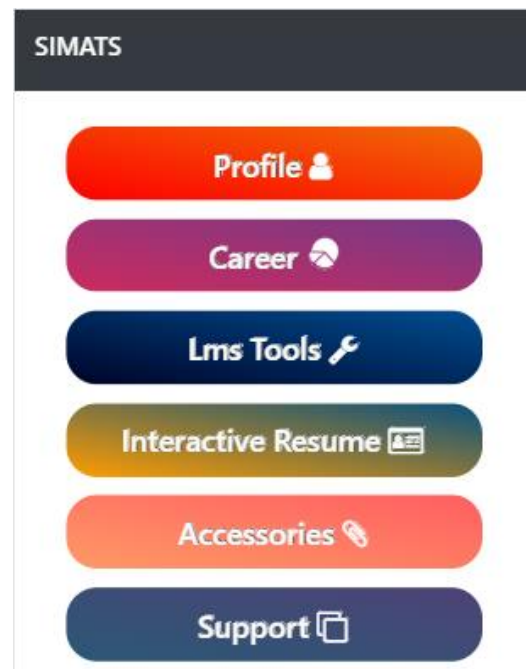
3.3 CLASS DIAGRAM



3.4 ACTIVITY DIAGRAM

IV. MODULES & RESULTS:

This project consists of 6 modules including home page. This is single page application, where the whole page gets loaded at a time and the required content will get rendered. But it looks like the multipage application, which is possible with the help of react router. We use google firebase as the backend for this project.



A) LOGIN AND REGISTRATION

Providing this authentication through login and registration helps student in maintaining their data in secure way. The data of student entered in application will be store in dedicated id on database which helps students to get access their data anytime, anywhere from any device.



Login

Email Id

Password

[Forgot Password?](#)
[Don't have account! register now](#)

Register

Full Name

Email Id

Password

Repeat Password

Security Question

Security Answer

Note: The security question is the only way to retrieve a forgotten password

B) STUDENT PROFILE

In this student profile module, students can add their personal information and academic details, which can be used to generate interactive resume dynamically. In traditional methods, student need to update resume every time whenever their skill set improved or personal information gets changed. Using these profile and career management modules, the information gets updated automatically.

Profile

Name

DOB

Gender

Marital Status

Email Id

Phone no

Alternative Phone no

Website

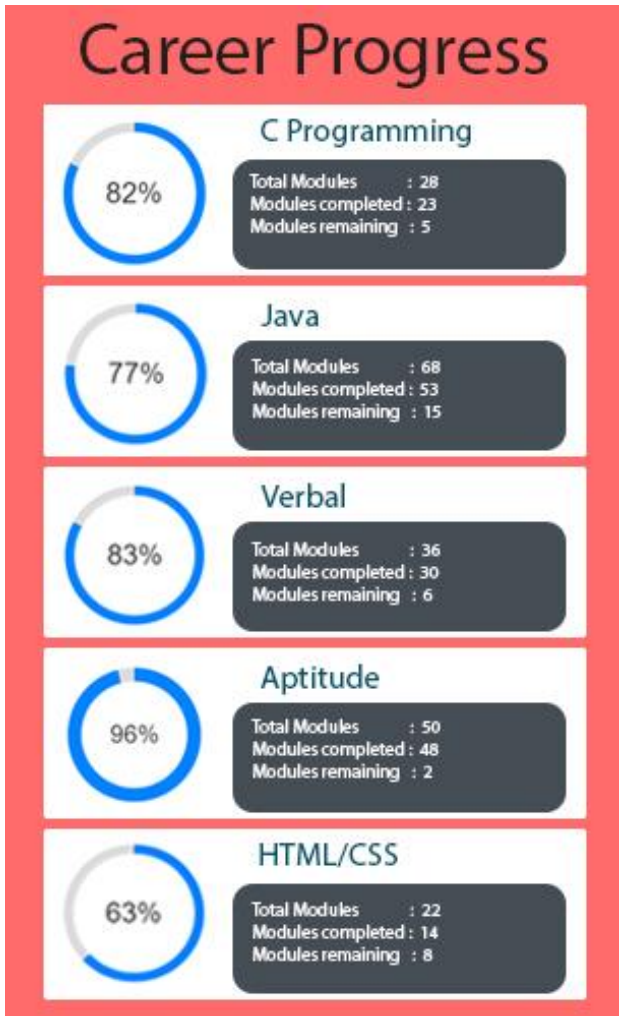
Academics

X	Branch	Institute/University	%
XII	Branch	Institute/University	%
UG	Branch	Institute/University	%

Career Objective

C) CAREER MANAGEMENT

In career management module, student can add their skill set and progress them. They can also include their project information and work experience, which can be used to generate interactive resume dynamically.



User Profile:
 Email: yogidesina2@gmail.com
 Phone: 9888888888
 GitHub: yogadurganath.github.io

Career objective
 Seeking a position to utilize my skills and abilities in the software industry that offers professional growth while being resourceful and innovative.

Skill-Set

- C & C++
- Java
- HTML & CSS
- Bootstrap
- JavaScript
- Reactjs
- Adobe Photoshop
- PHP & MySql

D) INTERACTIVE RESUME

In this module, the resume will be generated automatically using the information given in the above modules (Student profile and career management). There is no need to include data again and again in the resume, whenever the details get updated in career management module, the information in resume also gets updated automatically.

Education

#	🎓	School/College	Year of Passing	Stream
1	B.E	SAVEETHA SCHOOL OF ENGINEERING	2019	CSE
2	XII	SRI CHAITANYA JR COLLEGE	2015	MPC
3	X	SRI CHAITANYA SCHOOL	2013	SSC

Project Profile

Project #1

Title : Smart Hybrid Saveetha Utilities Application

Duration : Jan 2018 – May 2018

Environment : HTML, CSS, JS, JQuery with Framework7, PhoneGap

Operating System: Works in Android, IOS, Windows

Description: Hybrid platform mobile applications help in cost cutting and saving time as well as providing components for easier development of applications which provide a native feel to the user. This application aims to help developers make the right choice in order to build an application as well as give vital information about hybrid platform mobile application approaches.

Bio

DESINA YOGA DURGANATH

08-OCT-1997

MALE

SINGLE

INDIAN

Cooking, Playing badminton, Reading articles.

Chennai

E) LMS TOOLS

This module consists of tools to manage students' projects, study schedules and they can also use smart calculator provided to complete their tasks with ease and fast.

Exam day countdown

Exam date

YYYY-M-D

Please select a day.

Exam title

Eg. Internal or Final or Sem exams

ADD

resources provided by the application. It also helps the students in generating interactive Resume, event updates. With the help of accessories provided in the application students can do their works quicker and in a planned manner over traditional methods, which reduces time to plan and complete tasks.

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V. CONCLUSION

This project concludes that by using its application helps students in the progress of their skills, improve them using

