COLLEGE SEARCH WEB SERVICE

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Abstract

The College Search app makes it easy to find the most suitable colleges, best universities, important exams with details on courses, fees, placement, faculty and more. In addition, applying to colleges and universities just a tap away. Track your applications on the go and receive updates whenever a college views or changes the status of your application. Also get notifications for exam registration dates and results. To make it possible we have used Angular Framework.

Index Terms: *Angular(ng), Node Package Manager(npm), Command Line Interface(cli).*

I.INTRODUCTION

A survey done by Gallup and Strada education network of America which had more than 90000 respondents said they would change one decision, the most common regret was their choice of major with 36% saying they wish they'd chosen differently. The survey also found that 40% who pursued or completed bachelor's degree would pick a different field of study compared to 31 percent of those who hold a technical or vocational certificate. Overall, 28 percent of respondents said they would choose a different institution, while 12 percent said they would pursue a different level of degree. The report said these findings suggest that people's regrets about higher education are not driven entirely by their thoughts about the colleges they attended.

	Would obtain a different degree	Would study a different major	Would attend a different institution	Would make one or more decisions differently
Vocational/Tech/Trade program	19%	31%	35%	48%
Some college, no degree	13%	42%	35%	59%
Associate degree	23%	36%	30%	54%
Bachelor's degree	7%	40%	25%	52%
Some postgraduate work	9%	26%	26%	41%
Postgraduate degree	7%	24%	22%	37%

Numbers may not sum to 100% due to rounding.

Fig-1: Gallup Survey data

∗ Form virtual teams by using Orgs.
∗ Manage multiple versions of code and code dependencies.
∗ Update applications easily when underlying code is updated.
∗ Discover multiple ways to solve the same puzzle.
∗ Find other developers who are working on similar problems and projects.

Although this survey was done on north American subjects but we think case in India would not be any different. Considering that American schools have counseling for their wards but in India we don't have anything like that.

So we propose a website which would guide them to choose their career.

II. SOFTWARE USED

In course of this project we have used following software :

Node Package Manager (npm):

* npm is the world's largest software registry. Open source developers from every continent use npm to share and borrow packages, and many organizations use npm to manage private development as well.   npm consists of three distinct components:
* the website
* the Command Line Interface (CLI)
* the registry

Use the *website* to discover packages, set up profiles, and manage other aspects of your npm experience. For example, you can set up Orgs (organizations) to manage access to public or private packages.
The *CLI* runs from a terminal, and is how most developers interact with npm.
The *registry* is a large public database of JavaScript software and the meta-information surrounding it.
Use npm to . . .
* Adapt packages of code for your apps, or incorporate packages as they are.
* Download standalone tools you can use right away.
* Run packages without downloading using npm.
* Share code with any npm user, anywhere.
* Restrict code to specific developers.
* Create Orgs (organizations) to coordinate package maintenance, coding, and developers.

  Sharing packages and collaborating with other. If you choose to share your packages publicly, there is no cost. To use and share private packages, you need to upgrade your account. To share with others, create organizations, called npm Orgs, and invite others to work with you, privately (for a fee) or publicly (for free). Or you can sign up for a private instance of npm for your company, called npm Enterprise, so you can develop packages internally that are not shared public.

Angular cli

The Angular CLI is a command-line interface tool that you use to initialize, develop, scaffold, and maintain Angular applications. You can use the tool directly in a command shell, or indirectly through an interactive UI such as Angular Console.

Installing Angular CLI

Major versions of Angular CLI follow the supported major version of Angular, but minor versions can be released separately.

Install the CLI using the npm package manager:

"npm install -g @angular/cli"

Firebase

Firebase is a mobile and web application development platform developed by Firebase, Inc. Firebase provides a realtime database and backend as a service. The service provides application developers an API that allows application data to be synchronized across clients and stored on Firebase's cloud. The company provides client libraries that enable integration with Android, ios, Javascript, Java, Objective-c, Swift and Node.js
applications. The database is also accessible through a REST API and bindings for several JavaScript Framework.
Such as AngularJs, React,EmberJs and Backbone.js. The REST API uses the server sent event protocols., which is an API for creating HTTP connections for receiving push notifications from a server. Developers using the realtime database can secure their data by using the company's server-side-enforced security rules.

III. WORKING
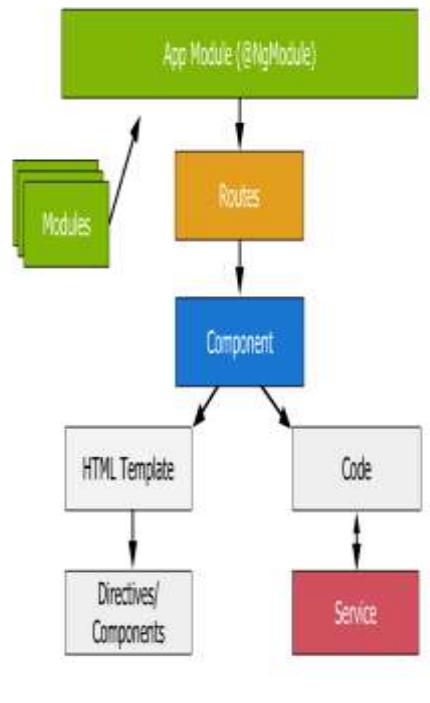
Fig-2: Angular overview

Services

Components shouldn't fetch or save data directly and they certainly shouldn't knowingly present fake data. They should focus on presenting data and delegate data access to a service. Services are a great way to share information among classes that *don't know each other*.

Modules

Angular apps are modular and Angular has its own modularity system called *NgModules*. NgModules are containers for a cohesive block of code dedicated to an application domain, a workflow, or a closely related set of capabilities. They can contain components, service providers, and other code files whose scope is defined by the containing NgModule. They can import functionality that is exported from other NgModules, and export selected functionality for use by other NgModules.

Routes

Represents a route configuration for the Router service. An array of Route objects, used in Router.config and for nested route configurations in Route.children.

```
type Routes = Route[];
```

Component

Decorator that marks a class as an Angular component and provides configuration metadata that determines how the component should be processed, instantiated, and used at runtime.
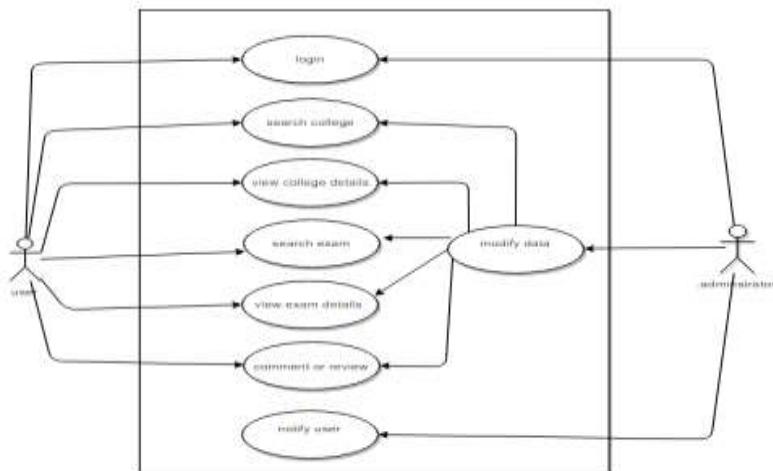
Fig 3: Use-case diagram

Working of this system can be explained by 2 viewpoints.

First one is user and second is administrator. The administrator is responsible for maintaining , modifying the information.

The second viewpoint is of user who would be using system features. The user can login in to the system and do following tasks. He/she/other can search the colleges and view the details about it. User can register using his email so that he/she would be notified regarding exams dates and college application dates.

End user will only interact with user interface to do all this things, whereas administrator can interact and manage every aspect of system i.e both front-end and back-end.

IV.IMPLEMENTATION
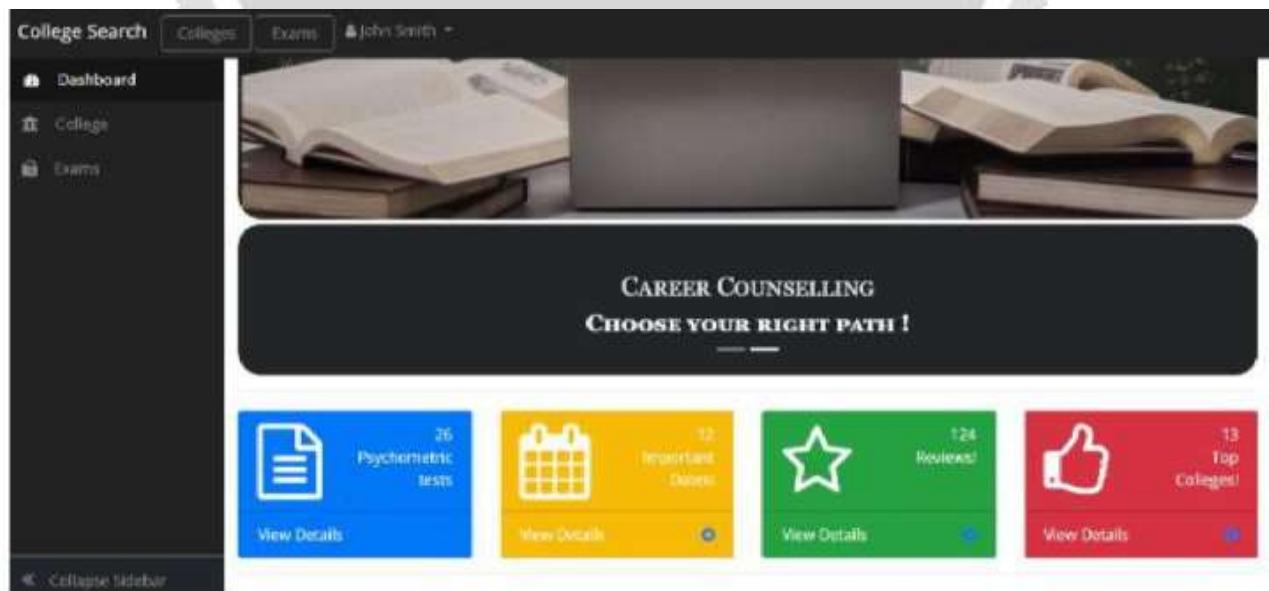
Fig-4:Dashboard Screenshot

Fig-5:Colleges Details Screenshot

Fig-6:Exams Details Screenshot

IV.CONCLUSION AND FUTURE WORK

We have collected data of various colleges and exam through which user can get admission to Nagpur colleges. We are planning to expand our project by collecting more data about colleges of different states.

ACKNOWLEDGMENT

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