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).
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

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.

```typescript
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.
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
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.

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REFERENCES

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