

P.G.D.A.V. College (M), University Of Delhi



B. Sc. (H) Computer Science (III Year)

SEMESTER V

INTERNET TECHNOLOGIES

BHRAMAN

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About

Providing virtual guides to the tourists visiting monuments and tourist spots, saving a lot of money for the tourists who spend hefty amounts on guides and that too for inaccurate information.

Technologies

- *FrontEnd* - Next Js (HTML, CSS, JS, Bootstrap)

It is used for templating in web pages, it is also the latest technology and works better for SEO.

- *BackEnd* - Next Js (NodeJS)

It uses javascript it helps better as the languages of backend and frontend are the same. API integration is also easier using Node JS.

- *Database* - MongoDB

MongoDB can handle high volume and can scale both vertically or horizontally to accommodate large data loads. In MongoDB the rows and columns do not exist. So, data can be stored dynamically.

- *API* - REST API

UI

- **Home Page :-**

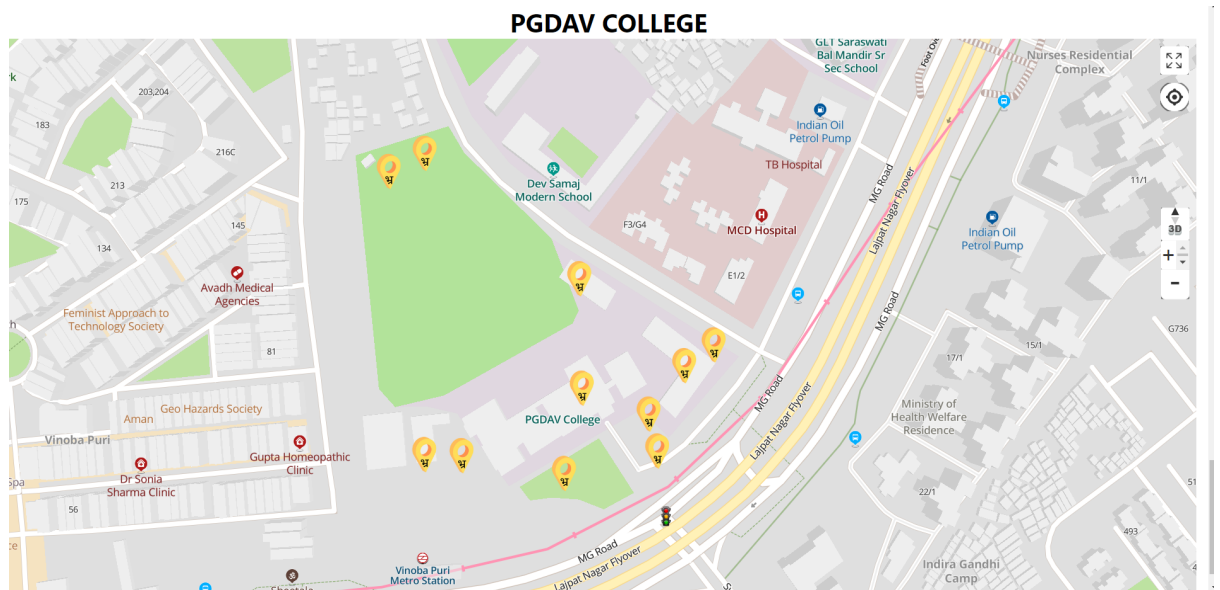
Landing page to display the tourist places for which the website shows guidance.

The very first page the user will interact with, it lists all the tourist places that the website caters for. On clicking any of the tourist places, the user will get redirected to that place's respective location page.



- **Location Page- Dynamic :-**

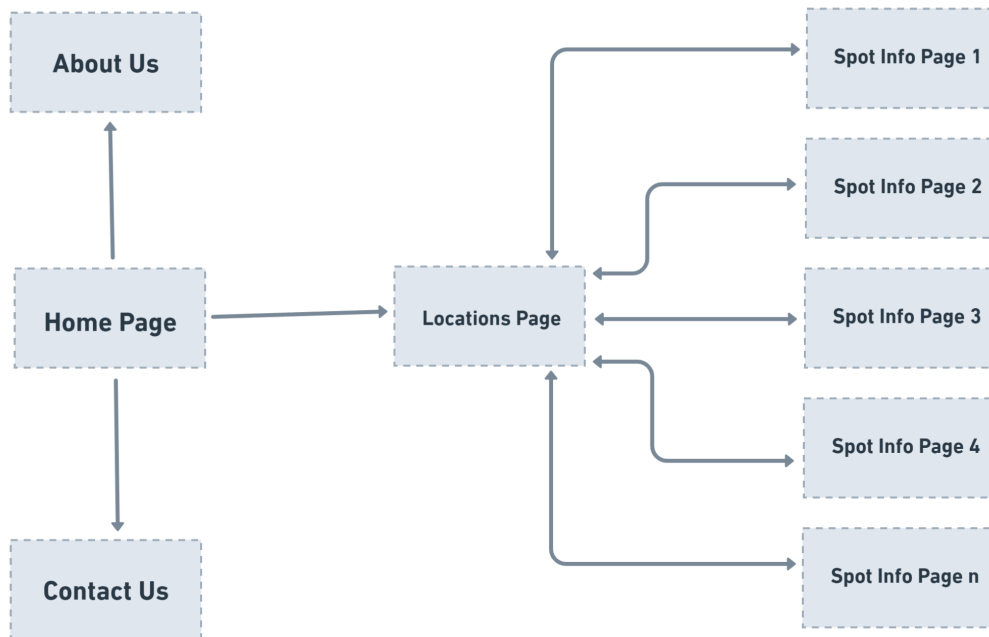
The page has a map of a specific tourist place with data points as information for the tourists. The user interacts with the map of the tourist place. User's real time location keeps updating with the use of the GPS of the user's device. As soon as the user enters into the vicinity of a significant spot in the tourist place a data pointer will pop-up to notify the user about that spot. On clicking the pop-up, the user will be redirected to a specific spot info page.



- **Spot Info page- Dynamic :-**
Redirected page from a specific location page to show the different significant spots within a tourist place. The user can find all the information about that spot on this page.
- **Contact page :-** A contact us form for the users to get in touch with the developers of the project.

- **Footer :-** A section that gives the general information of the website.

Workflow of pages



Functionalities

1. Integration of offline maps of tourist places with Google Maps.
2. Marking attractions and important spots on the map with specific symbols.
3. Monitoring the user's current position.
4. The vicinity of the specific spots is defined.
5. When a user enters that area, detailed information about that spot will pop up.

