**Project Ocean**

**A Minor Project Synopsis Submitted to**

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**Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal**

**Towards Partial Fulfillment for the Award of**

**Bachelor of Technology**

**(Computer Science and Information Technology)**

**Under the Supervision of: Submitted By:**

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***1.Abstract:***

* Project Ocean is aiming to solve the hard and rigorous processes of making and submitting projects. This will not only facilitate students but faculties to manage all the projects without any hassle, this will be an hassle-free way for submitting and collecting projects.
* Project Ocean is not all about submissions and collections but also about how good a student is at his excels and how much proficiency they have in there working domain, so the company hiring them can get to know there capabilities by just looking at the work they have done.

***2.Problem and Proposed solution:***

* Students can upload their own work to show the world what they are capable of and can also get the help and guidance they want at the same page of the book.
  + User can upload their projects to our site and easily and monitor them
  + As soon as someone other than the development team views their project a mail will be sent to user’s registered e-mail account
  + A dynamic interface so that you don’t feel bored even after working for long hours
  + Quick and responsive design so that you are not bound for system you use it on, use it any where anytime
  + Users can collaborate and help each other by our user forum this will help in quick error solution, and everyone will get something new to learn from each other

***3.Tehnology used and its justification:***

* Backend-Nodejs, Express JS
* Database-MongoDB
* Frontend-HTML, CSS, Bootstrap, JavaScript, React

After that it has widget inspection feature which is a very helpful feature of React which provide power to the developer to inspect the widget tree and can configure the Web application which widget has how many children and their classification and properties also. It uses Javascript language for the development. It is a great technology to learn having so many features hence we have chosen it for our project.

**Firebase**: Firebase is the backend support in the application it provides real time data of the application .Register a user, provide it facility of authentication sign in option ,sign out option Fetch data from the real time database and show it into the application all this works is done by Firebase hence we are going to use it in the backend of our application .It has real time monitoring of application which is useful to calculate how much an application can bear active traffic which is an important feature of it

**Adobe software**: Since we are dealing with UI so to design the UI, we have to take support of

most of the adobe application software which is going to simplify some of the critical tasks

also, we will build some of the visual objects for the application hence we have to use this software.

**4.Flow of Project**

Understanding Problems and Solution that is going to be found during the

development stage of projects

UI Designing

Design and development of the Visual object for the application

Frontend development [UI development ]

**Figure 1.**

**Flow of project**

Final Presentation

Final testing

Connectivity of backend and frontend

Backend Design and development

Database designing

Frontend screens connectivity and UI testing

**5.Input and output**

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Database level user data is available here

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Application level

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User Registration

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**Figure 2.**

**Working of Project**

Interaction of user and maid because of application available Features and job done

**7.Key Personnel and their expertise**

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| --- | --- |
| **Student Name and Enrollment No.** | **Technical Expertise** |
| **Shreyansh Rathore(0827CI201172** | **Visual design** |
| **Rajeev Singh Jadon(0827CI201153)** | **Backend development** |
| **Ram Dubey(0827CI201155)** | **Front-end Design** |
| **Pro. Vandana Kate** | **Guide** |

**8.Proposed Timetable**

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| --- | --- | --- |
|  | **Description of Work** | **Expected no. of weeks to complete the module** |
| **Module One** | UI development | 4 weeks |
| **Module Two** | Backend development | 3 weeks |
| **Module Three** | Final testing | 2 weeks |

**8.Application of Project:**

* Easy project management
* Accessing someone’s code require their acknowledgement
* Robust customer support
* Easy and dynamic interface
* Better indexing of projects
* Quick error resolution
* Hiring integration