**Project Proposal:**

**SDS Labs** **Winter of Code (WOC) 2023**

**Smart Health Care System for IIT Roorkee**

**Personal Information**

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**Coding Skills**

* **Fluency in C++ with sound knowledge of OOP concept.**
* **Basic Working Proficiency in CSS3.**
* **Sound Knowledge of HTML5.**
* **Basic knowledge of Java.**

**Development Environment**

* **Windows 11**
* **Microsoft VS Code**

**Project**

1. **Introduction:**

* **The aim of the project is to develop a system through which Doctors availability and appointments Slots in IIT Roorkee Hospital can be managed smartly and efficiently.**
* **The management of the hospital will upload the available timings and slots of doctors available on weekly/monthly basis.**
* **Students can book slots and choose doctors through the website as per their convenience 24\*7.**

1. **Use Cases:**

* **It will help student and Doctor manage their time efficiently.**
* **The sick won’t have to wait in queues.**

1. **Skills Required:**

* **HTML5 & CSS3: - Used for developing front end of the website.**
* **JavaScript: - A scripting language to be used in the front end to program the behaviors of web pages.**
* **MongoDB: - To create Database where user data will be stored.**
* **Node.js: - To be used in backend for creating servers.**

1. **Timeline:**

**14 Feb – 23 Feb**

* **Creating Wireframes**
* **Creating front end part of the website.**
* **Designing & Testing of UI of the website.**
* **Learning node.js and MongoDB for creating servers and databases respectively.**

**24 Feb**

* **Giving final touches before Mid-Term evaluation.**

**25 Feb**

* **Mid-Term Evaluation.**

**26 Feb - 9 Mar**

* **Completing Backend part of website.**
* **Creating Database.**

**10 Mar – 11 Mar**

* **Integration Components.**
* **UAT (User Acceptance Testing)**

**12 Mar**

* **Final Evaluation and Demonstration.**

**P.S.:**

**I am planning to stay at Roorkee till 17th February and can easily take out 7-8 hours a day due to the ongoing ETE vacations. In March hours may decrease a little starting of 2nd semester classes but due to all learning being done in early phase it won’t be difficult to achieve my deadlines. I am confident to complete this project within timelines**

**About Me:**

**I am 18 year old, first year student currently enrolled in Civil Engineering course at IIT Roorkee. Though I am new to development and programming in general but developing things to solve problems fascinates me that’s why I am joining winter of code which provides me opportunity to fulfill my interests. I have creative mindset with lot of new ideas to do things differently and efficiently to help society and give it back to society.**

**Thanks**