**PROJECT PROPOSAL**

**ON**

**Healthhub**

**SUBMITTED**

**TO**

**DEPARTMENT OF COMPUTER SCIENCE AND**

**ENGINEERING**

**FOR**

**FULL STACK ENGINEERING**

**Semester VI-(Batch-2022)**



**Submitted To: Submitted By:**

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# Project Statement:

Health Hub is a web-based platform designed to facilitate seamless communication between users and healthcare professionals. It enables users to consult with doctors by sharing their medical conditions and receiving expert feedback. Additionally, the platform integrates AI-powered ChatGPT, allowing users to input about their medical condition and gain preliminary insights into potential health conditions. By combining real-time doctor consultations with AI-driven assistance, Health Hub aims to provide accessible, reliable, and user-friendly healthcare support."

# Approximate duration (in hours) to complete the project:

80 hours (spread across 4 weeks).

1. **Proposed Project In charge:** Samarpit Sharma

# Team Members :

* 1. Sahil -2210992208
  2. Sai Krishna-2210992215
  3. Saksham -2210992218
  4. Samarpit Sharama-2210992235

# Check Points:

1. A web-based and mobile application will be developed as the final product.
2. A functional prototype of the Health Hub platform will be created for initial evaluation.
3. The project will incorporate AI allowing users to input about their medical condition and gain preliminary insights into potential health conditions.
4. Tasks will be allocated among team members to ensure equal contribution and efficiency.

# Technical Nodes:

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| --- | --- |
| **Subject / Area / Topic** | **Technical Nodes** |
| Web Development | HTML, CSS, JavaScript, React.js |
| Mobile App Development | Flutter or React Native |
| Backend Development | Node.js, Express.js, Database  integration |

1. **Prerequisites :**
   1. Proficiency in HTML, CSS, JavaScript for frontend development.
   2. Experience with React and Tailwind CSS for building UI.
   3. Knowledge of Node.js, Express, and MongoDB for backend development.
   4. Familiarity with RESTful APIs for frontend-backend communication.
   5. Understanding of ChatGPT API for AI-based symptom analysis.
   6. Basic knowledge of handling AI responses and optimizing interactions

# Materials Required and Availability:

**Software & Development Tools:**

* Code Editor: VS Code or any preferred IDE.
* Version Control: Git & GitHub for code collaboration.
* Frontend Technologies: React, Tailwind CSS, HTML, CSS, JavaScript.
* Backend Technologies: Node.js, Express.js, MongoDB.
* API Integration: OpenAI's ChatGPT API for AI-based symptom analysis.

**Database:**

* MongoDB Atlas for cloud database management.

**Testing & Debugging Tools**

* Postman for API testing.

1. **Estimated Total Cost:**

* Frontend Hosting: ₹500 - ₹2,000/month (e.g., Vercel/Netlify premium plans).
* Backend Hosting: ₹500 - ₹1,500/month (e.g., Heroku, DigitalOcean, AWS).
* Database: ₹1,000 - ₹3,000/month (e.g., MongoDB Atlas paid plans).
* AI Integration (ChatGPT API): ₹500 - ₹2,000 (depending on usage).
* Development Tools: ₹0 - ₹1,000 (if using premium features like private GitHub repositories).
* **Total Estimated Cost:** ₹ 2500 - ₹9500.

# Resources Available:

* **Open-source software tools** for development and AI integration.
* **Faculty and mentor guidance** throughout the project.
* **Online documentation and tutorials** for learning new tools and technologies.

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