

Annexure I (For Project Proposal for BEE)

1. **Project Statement:**

Our goal is to create a social media website, a refined clone of Twitter. We aim to propose an improved UI design that ensures more user-friendly interactions and enhances user engagement.

1. **Approximate duration (in hours) to complete the project:**

200 hours

1. **Proposed Project In charge:**

Rachit Walia

1. **Team Members along with roll no’s:**

Rachit Walia (2210990695)

Rachit Munjal (2210990694)

Pratham Tandon (2210990676)

Parag (2210990635)

1. **Check Points:** 
   1. Does the project statement result in a product? If yes, what type of product?

* Yes, our product is a full-stack social media website designed for entertainment and knowledge sharing. Users can create personal accounts, follow others, and engage by commenting and liking posts
  1. If it is a product, can a prototype be made, if not, what is it, which we can produce that our teachers can evaluate.
* Yes, our product is a full-stack social media website similar to Twitter. We can certainly develop a prototype to showcase its functionality. This prototype will allow users to create accounts, follow other users, and engage with posts through comments and likes. This will provide a tangible example for our teachers to evaluate and give feedback on.
  1. Does the project statement use multiple concepts to achieve the outcome?

Yes, it incorporates concepts from frontend development, backend services, and database management to deliver a functional product.

* 1. Does it have enough for our team members to do sufficient amount of work?

Yes, there are enough tasks, including frontend development, backend services, and database management, to keep all team members fully engaged.

1. **Technical Nodes** (add more rows in the table below, if required)

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|  |  |
| --- | --- |
| **Subject / Area / Topic** | **Technical Nodes** |
| Frontend development | React |
| Backend Services | Express.js , Node Js |
| Database Management | MongoDB |

1. **Prerequisites (in terms of knowledge, concepts and material) for doing the Project:**

**Front-End Development:**

* HTML, CSS, and JavaScript
* Familiarity with front-end frameworks/libraries (e.g., React, Vue.js, or Angular)
* Understanding of responsive design principles.

**Back-End Development:**

* Experience with back-end frameworks (e.g., Express for Node.js, Django for Python)

**Database Management:**

* Understanding of relational databases (e.g., MySQL, PostgreSQL) or NoSQL databases (e.g., MongoDB)

1. **Material that may be required to make the project and where it might be available**

**Code Editor:**

* **Options**: Visual Studio Code
* **Availability**: Free downloads from their official website.

**Front-End Frameworks/Libraries:**

* **Options**: React
* **Availability**: Free, available via npm or their official website.

**Back-End Frameworks:**

* **Options**: Express (Node.js),
* **Availability**: Free, available via npm, pip, or official websites

**Database Management Systems:**

* **Options**: MySQL, MongoDB
* **Availability**: Free downloads from their official websites or use cloud-based services

**Version Control System:**

* **Options**: Git
* **Availability**: Free, available from the official Git website

1. **What could the total cost of the project?**

N.A (No significant costs anticipated, as the resources and tools required are freely available.)

1. **Resources available to us:**

**Online Tutorials:**

* MDN Web Docs, freeCodeCamp, W3Schools.
* YouTube

**Courses and Certifications:**

* Platforms like Coursera, Udemy, edX for additional training

**Community Support:**

* Forums and communities like Stack Overflow, Reddit, and GitHub discussions

**Hardware and Infrastructure:**

* **Development Machines:**
  + Personal computers or laptops equipped with necessary development tools.

**Internet Access:**

* Reliable internet connection for research, development, and deployment.

**Documentation:**

* **Technical Documentation:**
  + Access to framework and library documentation for reference.
* **Project Documentation:**
  + Templates and tools for creating project plans, requirements, and user stories.