SE Lab – Problem Statement

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Problem Statement: *College Major & Minor Guidance in views of NEP 2020*

Feasibility Analysis:

- **Technical analysis:**

  · **Hardware:** This project can be implemented using pre-existing computer systems like laptops / desktops.

  · **Software:** This project can be developed with the integration of several primary web technologies like HTML, CSS, JavaScript, MySQL / MongoDB, JDBC and Servlets. Java will be the main programming language used for coding various functionalities. Other domains (like ML for processing data from the quiz) can also be considered depending on the requirement during development. (LAMP, MEAN Stack will be used)

  · **Technical skills of the team:** The developer of this project is well-versed with implementing this project with the available hardware and software. Therefore, the existing technology can be used.

  · **Maintenance and Upgradation:** This project will have the facility to modify and include other features depending on the requirements. Therefore, it can be upgraded and maintained as needed.

- **Operational Feasibility:**

  - **Degree of Service:** The basic requirement is to enable students to choose a major and minor in college to decide their career paths while aiming for an all-rounded education. Therefore, the interface will be user-friendly, GUI based and will have proper division of different features for a hassle-free experience.

  - **Quality Of Service:** This service also strives to provide participants with fulfilling life experiences through suggesting certified and quality institutions which also follow the modern NEP standards. In these institutions, the participants can exercise their capabilities to the fullest without too much stress or distractions.

- **Legal Feasibility:**

  - **Legality:** The data received from students in the quiz will be strictly confidential and only relevant information will be shared with counselors / college students / professors for communication purposes only after a consent from the student.

- **Schedule Feasibility:**

  - **Timelines / Deadlines:** A minimum of 6-8 deadlines have to be set over the course of the semester in order to verify the progress and plan the development.