Literature Survey

Meeting with HOD's of different departments about the requirements for providing the labs to students of different institutes:

- The availability of lab technician
- Number of students booking and charging accordingly
- The requirements of the lab for working

Automating the system for maximum use of labs and how the portal can be beneficial for the institutes and students:

- The geography tag of the institutions will help the students to find the institutes near them and select the slot for laboratory according to their convenience
- It will suggest and allot the slots accordingly the demand for maximum utilisation of laboratory and workshop which will be beneficial of the institutes
- It will give the institutions a portal for advertising the workshop and courses their institute is providing
- It will be a portal for the students to get physical experience of different institute and the working of them
- The students will be able to complete their assignment and practical records along with get the physical experience and the errors arise in real world in the situations like covid

Features of the website:

- Slot booking for the laboratory and workshop
- Organised data about the dates of the slot booked and the work shops attended
- The students can give reviews about the institute
- The institutes will provide the data about their laboratory, workshop and the timings they can provide their services
- Payment facility for the institutes, either the payment will be done by students or by their parent institution
- Advertisement about workshops of different institutions can be done
- Reviewing about the workshop

References:

- Backend flask tech with tim youtube
- Frontend code with harry
- Think in python
- Dive into html5
- SQLite database design and management
- Welcome to Flask — Flask Documentation (2.1.x) (palletsprojects.com)
- Flask-SQLAlchemy — Flask-SQLAlchemy Documentation (2.x) (palletsprojects.com)
- Flask-Login — Flask-Login 0.6.1 documentation
- Getbootstrap.com
- W3school