**Feasibility Study for**

**Campus Study Group Webapp**

**1. Project Idea**

Our web app will help students find and join study groups for their courses. Right now, students try to form groups through chat apps or bulletin boards, which is unorganized. The app will make it easy to post or join study groups for specific subjects.

**2. Main Features (Requirements)**

* Students can create an account and log in.
* Students can create a “study group” post (choose subject, time, location, online/offline).
* Students can search and join existing groups.
* Groups can send basic messages or announcements to members.

**3. Users and Use Cases**

* **Main Users:** University students.
* **Example Use:** A first-year math student logs in, searches “Calculus I,” and joins a group of 3–4 classmates meeting in the library.

**4. Market Feasibility / Competitor Analysis**

* **Existing Tools:**
  + WhatsApp / Discord groups → Good for chatting, but hard to find groups by subject or course.
  + Bulletin boards / flyers → Easy but not updated in real time.
  + University LMS (Learning Management System) → Sometimes has discussion boards, but students rarely use them for group formation.
* **What They Do Well:** Chat apps are familiar and easy to use. Flyers are simple and require no setup.
* **What’s Missing:** None of these tools provide a central, organized way for students to browse and join study groups for specific classes.
* **Why Our App is Better:** It’s built just for students looking for study partners. It organizes groups by subject, shows when/where they meet, and allows quick sign-ups.

**5. Tools & Skills Needed**

* **Frontend:** HTML, CSS, and JavaScript.
* **Backend/Database:** Firebase (for authentication + storing study group data).
* **Hosting:** Free with Netlify or Vercel.
* **Skills:** We already know HTML & CSS basics; we will learn Firebase through tutorials.

**6. Time & Schedule**

* **Plan & Design:** 2 weeks (draw wireframes, decide features).
* **Build Pages:** 2 weeks (homepage, login, group list).
* **Add Features:** 2 weeks (search, create group, join group).
* **Test & Present:** 2 weeks (fix bugs, polish, demo).

Total: **8 weeks (one semester)**.

**7. Challenges & Solutions**

* **Challenge:** None of us has used Firebase before.
  + *Solution:* Follow beginner tutorials and keep the login system very simple.
* **Challenge:** Time management with other classes.
  + *Solution:* Divide tasks by role (UI design, backend, testing).
* **Challenge:** Making a chat system might be too hard.
  + *Solution:* Start with simple group announcements instead of full chat.

**8. Conclusion**

Yes, our project is **doable**. We will focus on a simple version (Minimum Viable Product) first: create groups, join groups, and search for them. This project is worth doing because it solves a real problem on campus and gives us practice building a real web app with login and database features.