

Teknnect

Assignment D1-1

Divide the system into at least two separate components or subsystems, which can be supported with two iterations. Briefly describe each.

Subsystem 1: Web-based Teknnect Platform (Desktop Browser)

- The first version will be a responsive web application that runs on desktop or laptop browsers.
- Core functionality will include:
 - Posting and browsing items (lost & found, buy/sell, trade, donation)
 - User registration and login
 - User-to-user messaging system
 - Email-based notifications
 - Admin panel for post moderation
- Focus is on quickly building the platform for initial user testing and core usage on desktop.

Subsystem 2: Mobile Web Version (Responsive Mobile Browser)

- The second version will optimize the existing web app for mobile browsers (smartphones/tablets).
- No app installation required — users can access via mobile browsers like Chrome or Safari.
- Focus on mobile-friendly design:
 - Responsive layout
 - Faster load times on mobile
 - Touch-friendly UI for posting and browsing
 - Improved experience for mobile users on campus
- Allows quick item posting using mobile camera and faster communication between users.

Assignment D1-2

Work Breakdown Structure

Step #	Task Description	Estimated Time (Hours/Days)
1	Finalize requirements and user stories	1 day
2	Set up project repository (GitHub / GitLab)	1 day
3	Set up database schema and server	2 day
4	Develop user registration and login system	3 days
5	Build item posting form (for lost & found, trade, sell, donation)	4 days
6	Implement search and browse functionality	5 days
7	Implement messaging system between users	5 days
8	Implement notification/alert system (email notifications for now)	4 day
9	Develop admin panel for post moderation	3 day
10	Test core functionality (Unit Testing & User Testing)	2 days
11	Fix bugs and optimize	3 day
12	Final review and prepare demo	1 day

