

Change Control Decision Summary

Change Request Title: Add Indoor Navigation Support

Date of Meeting: Week 5

Facilitator (Project Manager): Raffay

Summary of Discussion:

- Business Need and Benefits:

Indoor navigation will enhance usability for students, especially new ones, by allowing them to locate rooms and offices inside key buildings like the library and admin block. It adds value and modernizes the app experience.

- Technical Feasibility:

Technically feasible using Wi-Fi or Bluetooth (BLE) beacons. Requires additional integration of libraries, floor plans, and beacon mapping. Lead Developer Michael confirmed this can be achieved with available tools.

- Cost Impact:

Moderate. Will require budget for beacon devices and possible backend server/storage upgrades. Slight increase in development hours.

- Quality/Testing Impact:

High testing effort required. Physical testing in real indoor environments is needed. May delay final QA of the full app.

- User Experience Impact:

Positive. Users will benefit from real-time indoor positioning and easier access to indoor locations. Adds professionalism and competitive edge.

- Risks Identified:

- Delay in timeline (approx. 2 additional weeks)
- Availability and installation of indoor beacons
- Increased complexity in navigation logic and backend (Backend Developer Yahya will handle backend updates)

Final Decision:

☒ Approve ☐ Reject ☐ Defer

Justification/Comments:

The feature greatly improves user experience and supports the goal of making campus navigation seamless. The benefits outweigh the delay. Development will be split into two

phases: Phase 1 for outdoor navigation (on time), Phase 2 for indoor (extra 2 weeks). Fahad Mughees Ahmed supported the approval, stating it aligns with student needs.

Next Steps/Action Items:

- Developer team to plan indoor navigation module (Week 6–7)
- Student Affairs Office to provide floor maps and arrange beacon access
- Designer to create UI for indoor maps
- QA team to prepare for indoor environment testing
- Project timeline to be updated and re-shared