University Timetabling App Case Study

(Intentionally vague to correctly reflect real world)

Background

The University of Spacetravel needs a new mobile and web application to manage its class timetabling process. The current manual system (spreadsheets and emails) is error-prone, leading to room conflicts, missed classes, and frustrated users. The app should streamline scheduling, room allocation, and notifications for all stakeholders.

Stakeholders

- **Students**: Need to view their class schedules, receive alerts for changes, and request room bookings for study groups.
- **Lecturers**: Require schedules for their courses, ability to request room changes, and notifications for conflicts.
- **Administrators**: Manage room assignments, approve changes, and ensure compliance with university policies (e.g., accessibility, capacity).
- **IT Staff**: Maintain the app and ensure integration with existing systems (e.g., student database).

Initial Needs

- The app should be "easy to use" and "fast."
- Students want to "see their schedules anywhere."
- Lecturers need to "avoid room conflicts."
- Administrators want "efficient room management" and compliance with policies.
- The app must work on mobile devices and integrate with the university's database.
- Notifications should be "timely" and "reliable."

Your Task

As requirements engineers, your team will:

1. **Elicit** requirements through interviews and scenarios.
2. **Analyze** and prioritize requirements, resolving conflicts.
3. **Specify** requirements in a structured SRS document.
4. **Validate** the requirements for completeness and clarity.

Constraints

- Budget: Limited to in-house development.
- Timeline: 6 months to first release.
- Must comply with accessibility standards (e.g., WCAG 2.1).
- Must integrate with existing student database (SQL-based).