

CAMPUS BOOKING SYSTEM

Feature Set Document

Phase 1 · v1.0 · CBS-FEAT-001

Overview

This document defines the complete feature set for the Campus Booking System (CBS) Phase 1 SwiftUI iOS prototype. Features are organised by epic and assigned a priority tier. Phase 1 delivers mock-data driven screens demonstrating each feature’s core interaction flow.

Feature Priority Key

Priority	Meaning
P1 — Core	Must be demonstrated in Phase 1 prototype
P2 — Extended	Included if time permits; documented regardless
P3 — Future	Planned for production phase; not in prototype

Epic 1 — User Accounts & Authentication

Feature	Description	Priority
Student Registration	New user account creation with university email validation	P1
Login / Logout	Secure credential-based sign-in and session management	P1
Profile Management	View and edit student profile, contact info, and preferences	P1
Biometric Authentication	Face ID / Touch ID login for returning users	P2
Role-Based Access	Differentiated access for Student, Tutor, and Admin roles	P1
Password Reset	Email-based password recovery flow	P2

Epic 2 — Tutor Booking

Feature	Description	Priority
Tutor Browse & Search	Search tutors by subject, rating, and availability	P1
Session Scheduling	Pick date/time slot from tutor's live availability calendar	P1
Booking Confirmation	Instant confirmation with session details and location	P1
Session Cancellation	Cancel or reschedule sessions within policy window	P2
Tutor Profile View	View tutor bio, qualifications, subjects, and past ratings	P1
Waitlist	Join waitlist when preferred tutor slot is full	P3

Epic 3 — Room Booking

- **Room Search & Filter** — Search rooms by capacity, location, equipment, and availability [P1]
- **Real-Time Availability** — Live room availability grid with time slots [P1]
- **Room Reservation** — Reserve a room for a specified time block [P1]
- **QR Code Check-In** — Check in to reserved room via QR code on arrival [P2]
- **Room Details View** — View room photos, amenities, capacity, and booking rules [P1]
- **Recurring Booking** — Schedule repeat bookings for study groups [P3]

Epic 4 — Equipment Booking

- **Equipment Catalogue** — Browse available equipment by category and availability [P1]
- **Equipment Reservation** — Reserve equipment with pickup/return time slots [P1]
- **Availability Calendar** — View equipment booking calendar across the week [P1]
- **Equipment Details** — Specs, photos, usage instructions, and condition reports [P2]
- **Late Return Alerts** — Automated alerts for overdue equipment returns [P2]
- **Damage Reporting** — Report equipment damage through in-app flow [P3]

Epics 5–7 — Summary Feature List

Epic	Key Features	Owner	Phase 1
5 — Notifications	Push alerts for confirmations, reminders, cancellations, waitlist updates	Bassel Taleb	P1 screens
6 — Admin	Resource management dashboard, booking approvals, usage analytics, user management	Saad Alzamzami	P1 screens
7 — Ratings & Feedback	Post-session star ratings, written reviews, tutor feedback, admin moderation	Syeda Ahmed	P1 screens

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