CSEN4174: Software Engineering Lab

Assignment 1

Team number: _____4_____

Team name: _____Decrypt_____

Table 1

Title Student Registers and Verifies Account	Priority 1	Estimate 2 person-hours
User Story As a student, I want to register and verify my identity so that I can access the locker rental system securely.		
Acceptance Criteria • Student can enter required registration details • System verifies. • Student cannot log in until verified. • Registration is successful only with unique identity.		

Table 2

Title Student Logs into the System	Priority 1	Estimate 1 person-hour

User Story		
As a student, I want to log in with my credentials so that I can rent, use, or return lockers.		

Acceptance Criteria
• Login only succeeds for verified accounts.
• Incorrect credentials are rejected.
• Successful login grants access to student.

Table 3

Title	Priority	Estimate
Student Rents an Available Locker	1	2 person-hours

User Story
As a student, I want to rent a locker so that I have a secure place to store my items.

Acceptance Criteria
• Only available lockers are shown.
• One active rental per student.
• Payment is processed before locker assignment.
• System confirms rental with locker number and duration.

Table 4

Title	Priority	Estimate
Student Accepts Liability Terms Before Rental	1	1 person-hour

User Story
As a student, I must accept the liability policy before renting so that responsibilities are clear.

Acceptance Criteria
• Student must read and accept terms before proceeding.
• System records acceptance and return date.
• No rental allowed without checking on the agreement sign.

Table 5

Title	Priority	Estimate
Student Accesses Locker Using Secure Method	2	2 person-hours

User Story		
As a student, I want to access my assigned locker securely using RFID, biometric, or an access code.		
Acceptance Criteria		
• Only authorized students can open their locker.		
• System records each access in the audit log.		
• Locker stays locked for others.		

Table 6

Title	Priority	Estimate
Student Returns Locker	1	1.5 person-hours
User Story		
As a student, I want to return my locker so that it becomes available for others and I end my liability.		
Acceptance Criteria		
• Only lockers assigned to the student can be returned.		
• System updates locker status to 'available.'		
• Rental record is closed and archived.		
• If overdue, penalty is displayed and must be paid.		

Table 7

Title	Priority	Estimate
System Handles Overdue Locker Automatically	2	2 person-hours
User Story		
As a student, if I fail to return a locker on time, I want the system to notify me and apply penalties and lockout.		
Acceptance Criteria		
• System detects overdue rentals.		
• Student is notified in-app.		
• Locker access is locked.		
• Fine is calculated and displayed on return.		

Table 8

Title Waitlist for Lockers When Unavailable	Priority 2	Estimate 2 person-hours
User Story As a student, I want to join a waitlist if no lockers are available so I can get notified when one is free.		
Acceptance Criteria • Students can join the waitlist if all lockers are rented. • Waitlist assigns lockers in order as they become free. • Notification sent to next student in queue.		

Table 9

Title Admin Manages Lockers and Rentals	Priority 1	Estimate 2 person-hours
User Story As an admin, I want to view and manage all lockers and rentals so I can resolve issues and oversee operations.		
Acceptance Criteria • Admin dashboard shows all lockers, rentals, overdue status. • Admin can override assignments if necessary. • All admin actions are audit-logged.		

Table 10

Title System Logs and Audits All Significant Actions	Priority 1	Estimate 2 person-hours
User Story As an admin, I want every key action to be logged so that security and accountability are enforced.		
Acceptance Criteria • All critical actions (login, rent, return, access, admin override) create detailed audit log entries. • Logs include who did what, when, and relevant details. • Logs can be reviewed in the admin dashboard.		