

SW Engineering CSC 648/848 - Milestone 3

SecondChance: The Eco-Friendly Rental Platform!

CSC 648 - Section 01 - Team 05

11/05/2024

Team Members & Roles

Student Name	Student's Role
Parth Desai	Team Lead / PM
Pedro Grande	Front-end Developer
Charvi Sharma	Scrum Master
Josue Hernandez	Git Master
Andre Velarde	Back-end Lead
Preet Vithani	Front-end Lead
Hsin-Ying Tsai	Back-end Developer

Functional Requirements

Functional Requirement	Priority	Status
R.1.1: A new user must be able to register with a valid email, password, and name.	1	
R.1.2: The system should verify the user's email during the registration process.	1	
R.1.3: Users must be able to log in using their email and password.	1	
R.1.4: Implement password hashing for security.	1	

Functional Requirement	Priority	Status
R.1.7: Admin users should have elevated privileges, allowing them to manage content.	1	Completed ▾
R.2.1: Define different roles (admin, renter, owner) with access controls.	1	Completed ▾
R.2.3: Owners should be able to list items for rent and manage listings.	1	Completed ▾
R.2.4: Renters can rent items	1	Completed ▾
R.3.1: Owners must be able to create an item listing with title, description, and images.	1	Completed ▾
R.3.2: Listings must indicate item status (available or rented).	1	Completed ▾
R.3.3: Users must be able to update or delete their listings.	1	In Progress ▾
R.3.4: Each item must display detailed information, including reviews and rental history.	1	Completed ▾
R.3.5: Items must be categorized into predefined categories (furniture, electronics, etc.).	1	Completed ▾
R.4.1: Users must be able to search for items by category, location, and condition.	1	Completed ▾
R.4.2: Users must be able to filter items by price range, availability, and condition.	1	Completed ▾
R.4.3: Implement advanced search using Elasticsearch for efficient queries.	1	Completed ▾
R.5.1: Renters must select start and end dates for renting an item.	1	Completed ▾
R.5.2: System must calculate total rental cost based on duration and rental price.	1	Completed ▾
R.5.6: Implement a secure payment gateway for transactions.	1	Rejected ▾

Functional Requirement	Priority	Status
R.6.1: The system must store transaction history for renters and owners.	1	Completed ▾
R.6.2: Users should be able to view past and active rentals.	1	Completed ▾
R.6.4: Log all payments with transaction details (date, amount, status).	1	Rejected ▾
R.7.1: Enable real-time messaging between renters and owners via chat interface.	1	Completed ▾
R.7.5: Messages must be stored and retrievable from the database.	1	Completed ▾
R.8.1: Implement a sustainability score based on user actions (rentals, purchases, etc.).	1	Completed ▾
R.9.1: Integrate an AI chatbot for customer support and general inquiries.	1	In Progress ▾
R.1.5: Users must be able to reset their password via email.	2	Not Started ▾
R.1.6: Users can update profile details (name, phone, avatar).	2	In Progress ▾
R.2.2: Admins should be able to suspend or delete user accounts.	2	Completed ▾
R.5.2: Renter should be able to leave reviews.	2	Not Started ▾
R.4.4: Users should be able to save search preferences.	2	Not Started ▾
R.5.3: Owners should receive notifications when items are rented.	2	In Progress ▾
R.5.4: Renters must be able to cancel or extend rentals if available.	2	In Progress ▾
R.5.5: Owners must be able to set limits for rental periods (min and max duration).	2	Rejected ▾

Functional Requirement	Priority	Status
R.7.2: Chat must display user's avatar and timestamp for each message.	2	Completed ▾
R.7.3: Unread messages should trigger notifications to users.	2	Completed ▾
R.8.2: Display the sustainability score in the user's profile, with progress indicators.	2	Completed ▾
R.9.2: AI chatbot should provide answers about rental policies, sustainability, and item listings.	2	In Progress ▾
R.6.3: Implement refunds or adjustments for cancellations or issues.	3	Rejected ▾
R.7.4: Users should be able to report inappropriate behavior or messages.	3	Rejected ▾
R.9.3: AI chatbot should provide suggestions on eco-friendly actions for users.	3	In Progress ▾