



MISSOURI STATE UNIVERSITY  
DEPARTMENT OF COMPUTER  
SCIENCE



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# Hostel Management

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## Project Description

### Project Summary

While we pursuing a degree in India, the rising number of educational institutions has led to a corresponding increase in private hostel facilities for student accommodation. However, we have personally encountered several challenges: The primary issue was relying on offline options for booking facilities, which created multiple difficulties:

1. Offline booking options for private hostel rooms near the university involve waiting for room assignments for a very long time.
2. The absence of an online system for booking private study rooms within the hostel will always give us trouble in emergency situations.
3. Reporting lost items in the hostel was restricted to offline channels, making us wait until the next working day to register a complaint.
4. Lack of online access to view whether the books are available in the library for my specific stream will always be an irritation to physically check.

To address these challenges, we want to develop a simple and clean web application that resolves the issues. This web app will offer an online booking system for hostel rooms, study rooms, a complaint registration process, and an online system to check if the books are available for the specific stream. This ensures a more convenient and accessible hostel management system.

### Software Features

#### End User

##### Feature 1

Login – For the login, you must log in first before you can access the system.

##### Feature 2

Sign Up – For the sign-up, you will fill in the forms, such as your username, password, and email address.

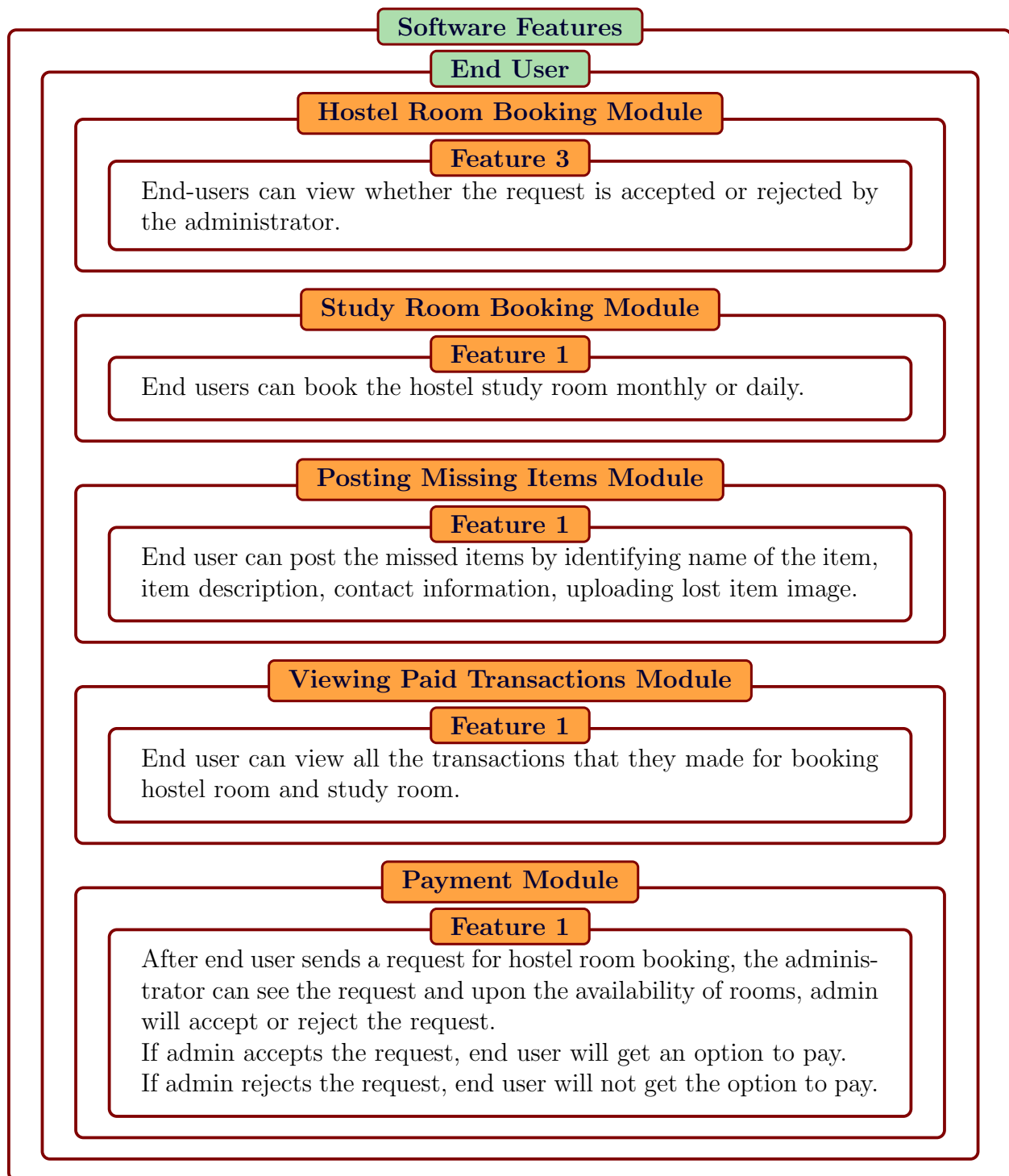
#### Hostel Room Booking Module

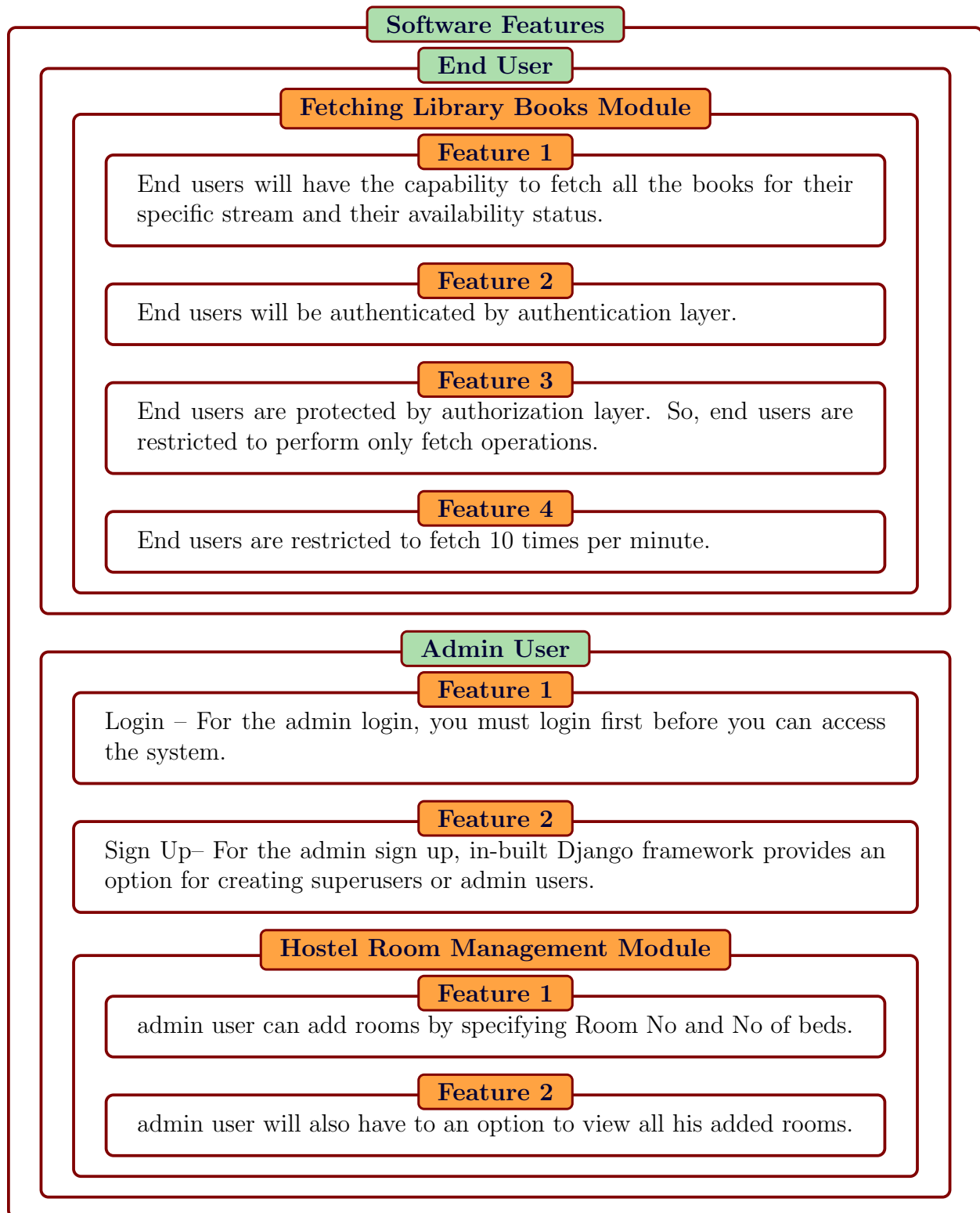
##### Feature 1

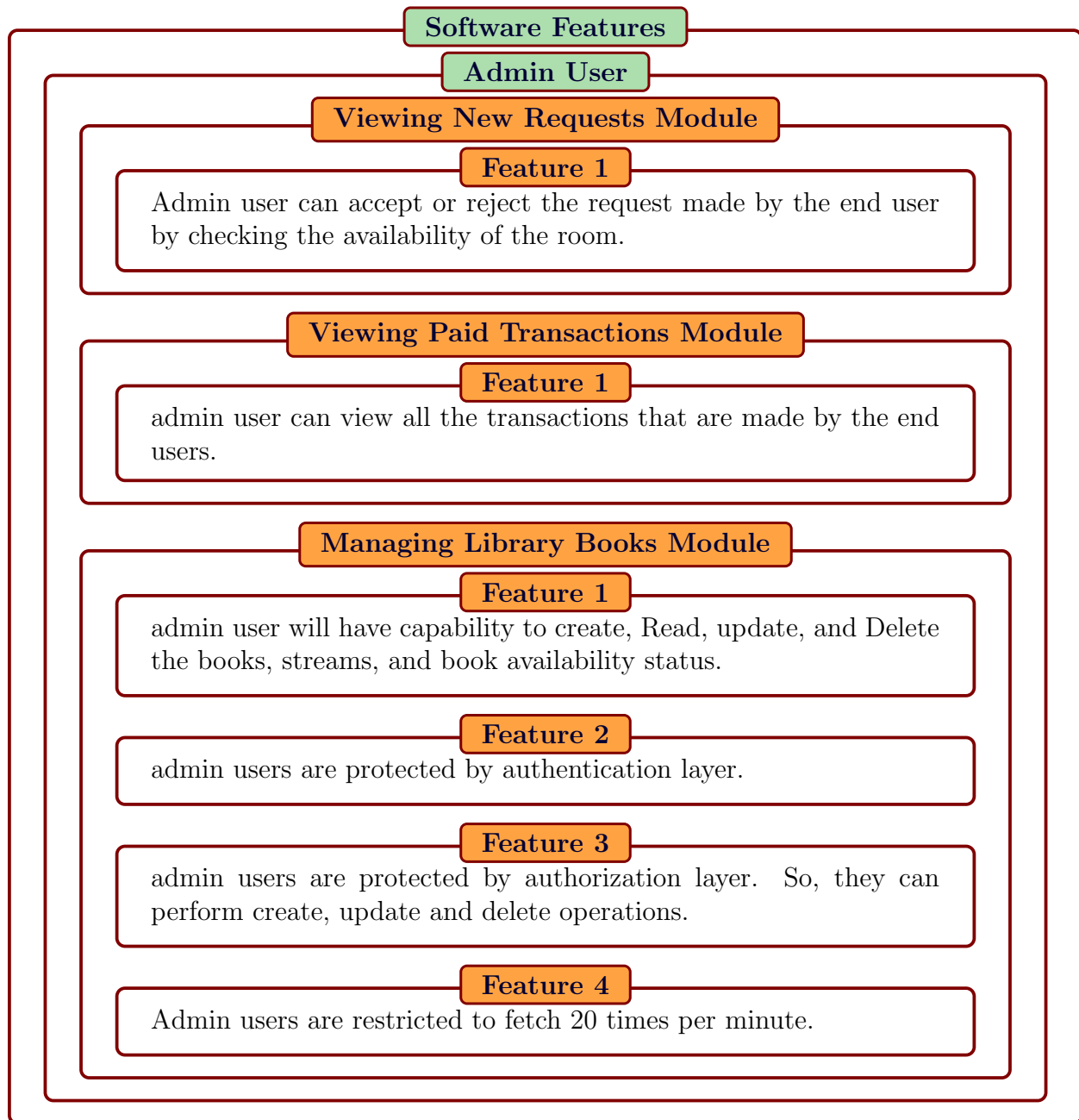
End-users can book a hostel room by sending a “Request” to the admin user.

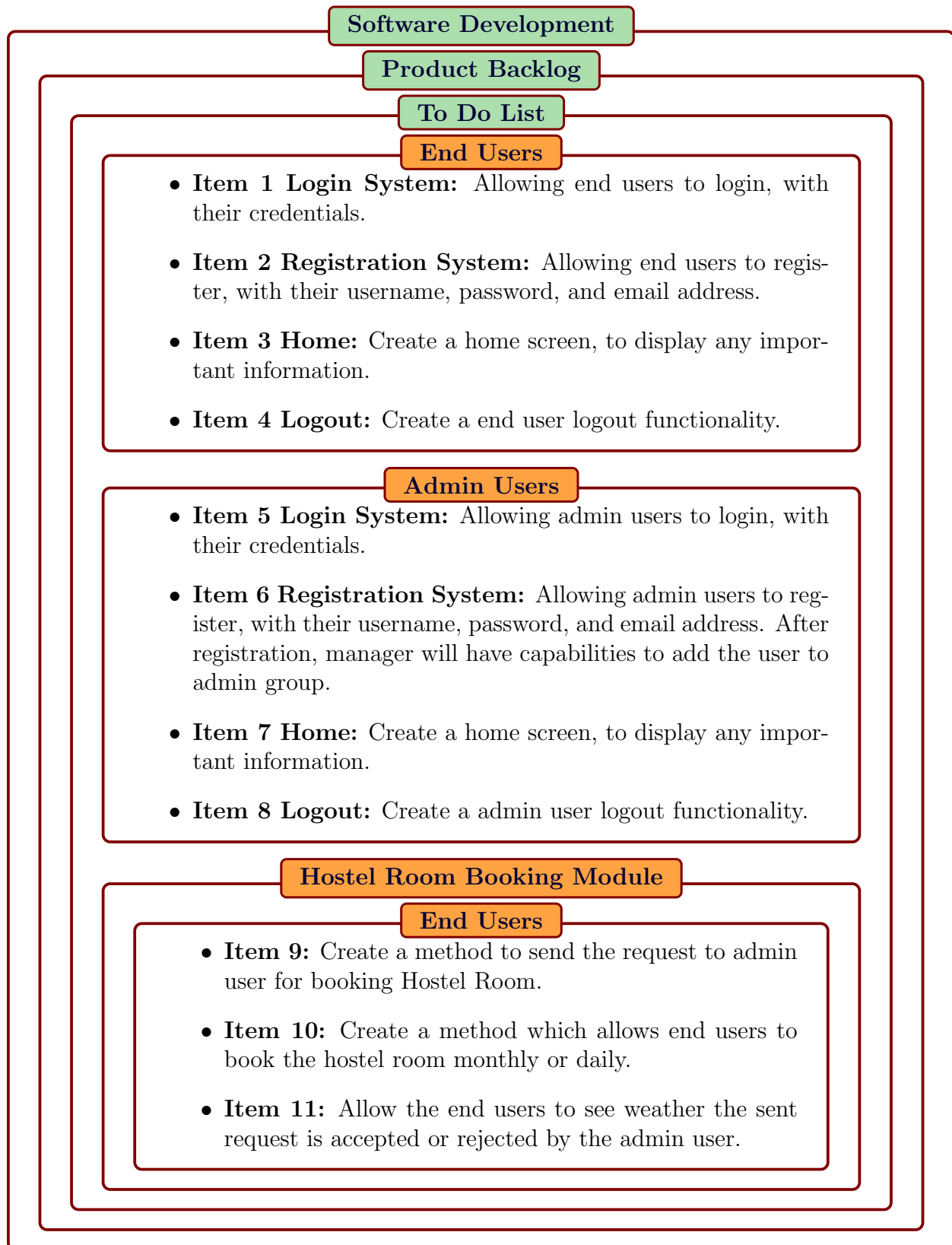
##### Feature 2

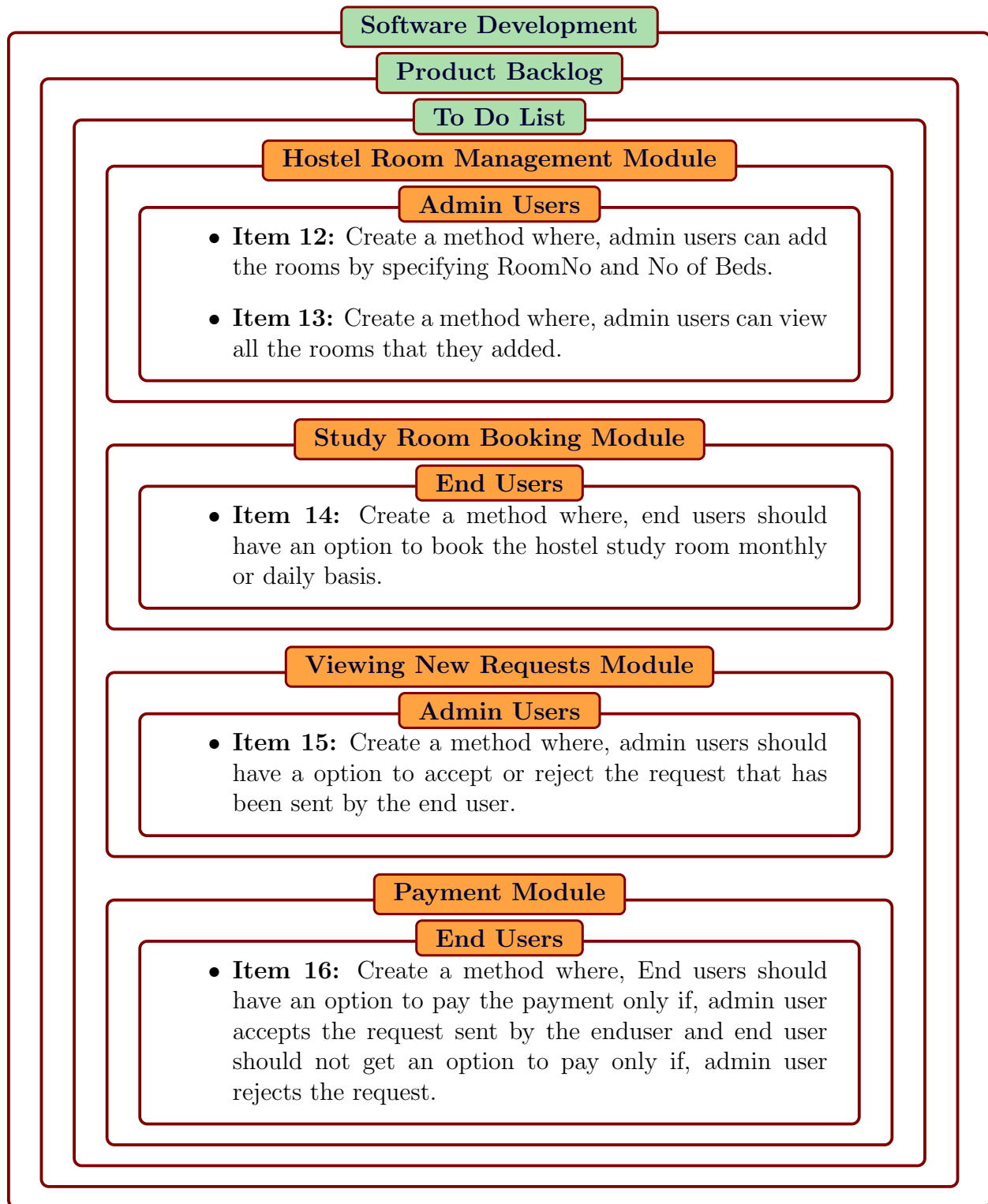
End-users can book a hostel room monthly or daily.

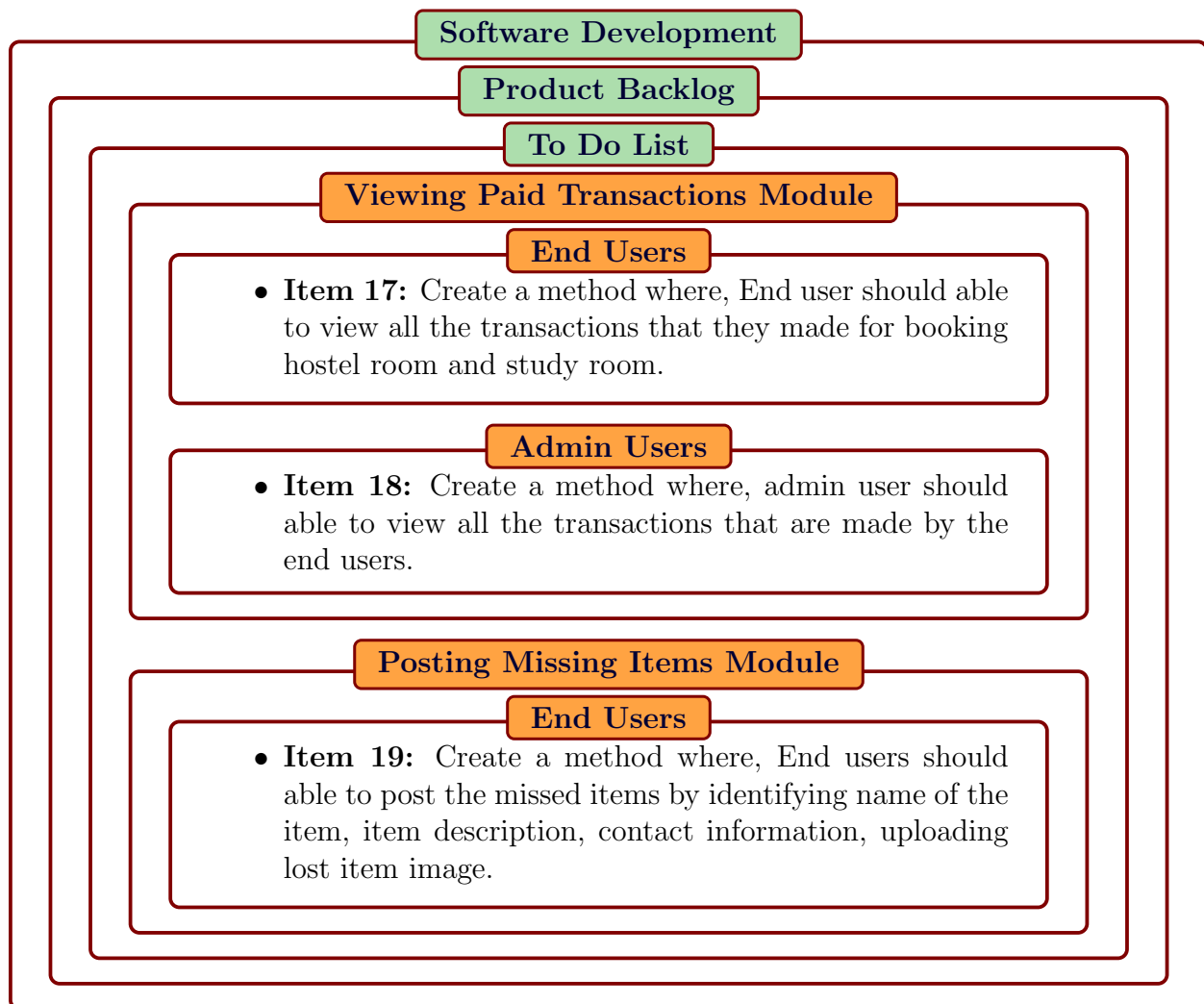




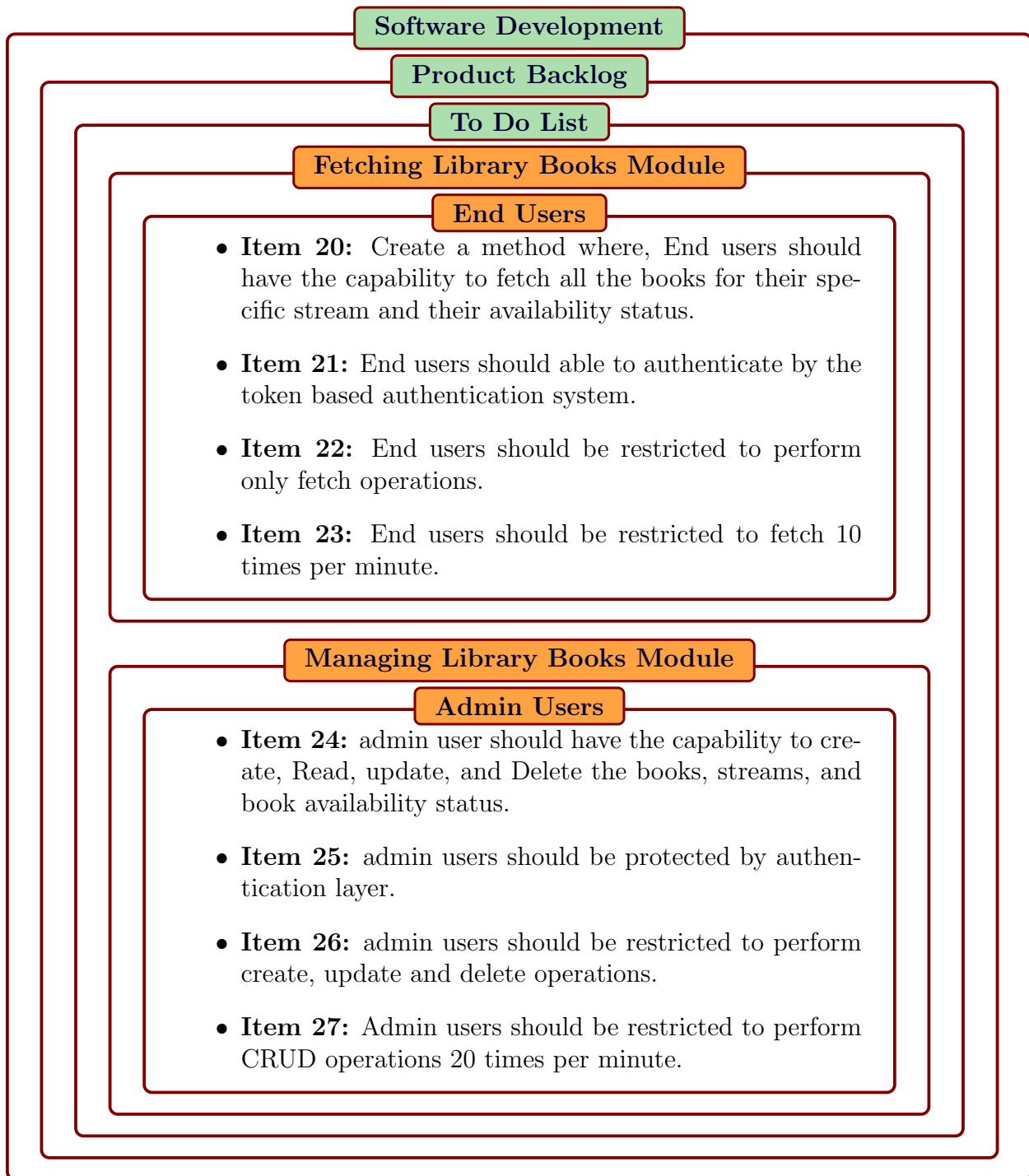


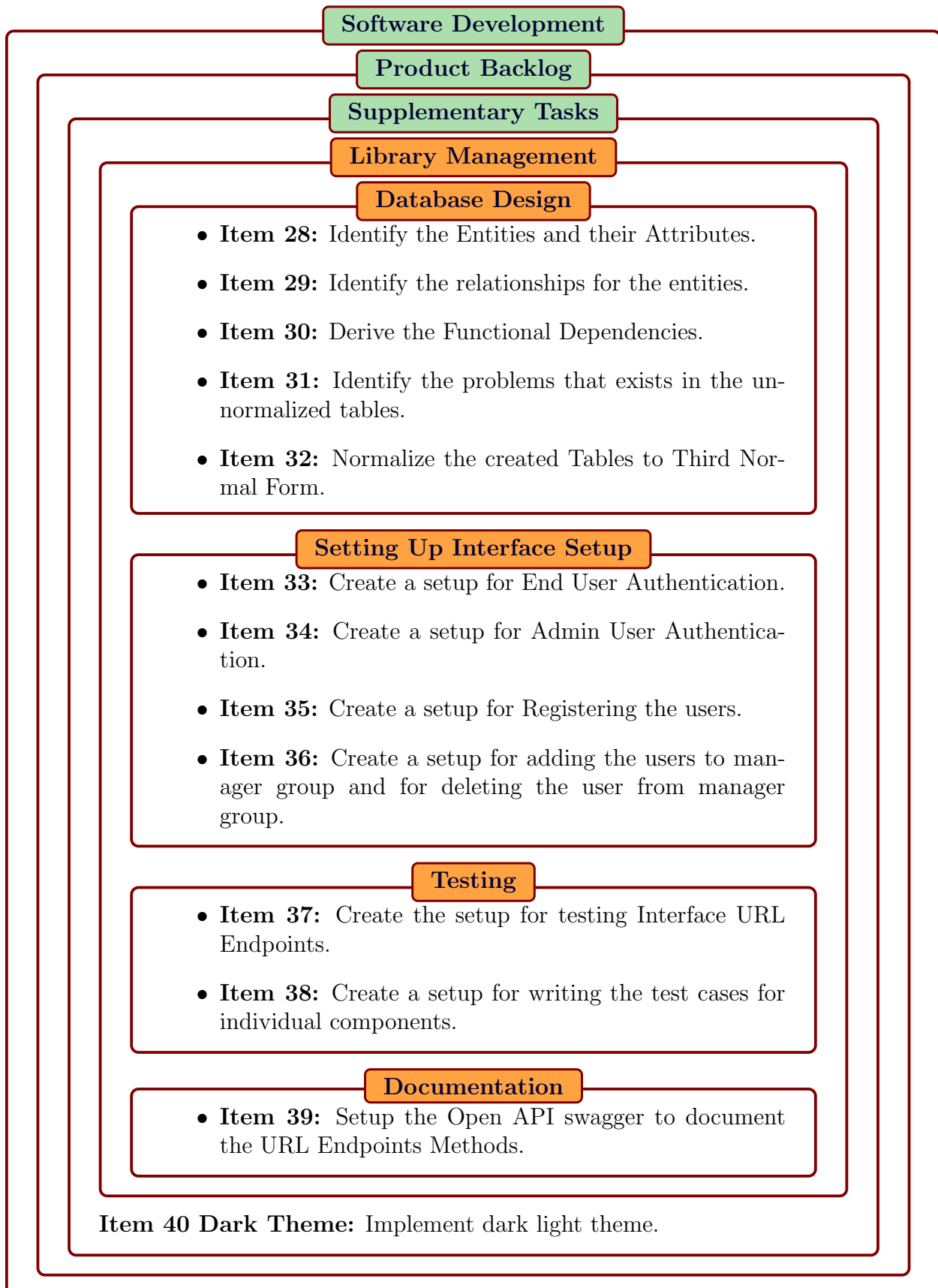












**Software Development****Sprint Backlog****Sprint 1**

- **Task 1:** Implement Item1 End user Login System.
- **Task 2:** Implement Item2 End user Registration System.
- **Task 3:** Implement Item4 End user Logout System.
- **Task 4:** Implement Item5 Admin user Login System.
- **Task 5:** Implement Item6 Admin user Registration System.
- **Task 6:** Implement Item8 Admin user Logout System.
- **Task 7:** Implement Items 28,29.
- **Task 8:** Implement Items 30, 31, 32.
- **Task 9:** Implement Items 33, 34.
- **Task 10:** Implement Items 35, 36.
- **Task 11:** Implement Items 37, 38, 39, 40.

**Software Development****Sprint Backlog****Sprint 2**

- **Task 12:** Implement Stream Model by looking at Item 32.
- **Task 13:** Implement Item 37 for Stream Model.
- **Task 14:** Implement Item 38 for Stream Model.
- **Task 15:** Implement Items 20 and 24 for Stream Model.
- **Task 16:** Implement Items 21 and 25 for Stream Model.
- **Task 17:** Implement Items 22 and 26 for Stream Model.
- **Task 18:** Implement Items 23 and 27 for Stream Model.
- **Task 19:** Implement Item 39 for Stream Model.
- **Task 20:** Implement Items 9, 10, 11.
- **Task 21:** Implement Items 7, 12, 13, 15 and 18.

**Software Development****Sprint Backlog****Sprint 3**

- **Task 22:** Implement Book Model by looking at item 32.
- **Task 23:** Implement Items 20, 24 for Book Model.
- **Task 24:** Implement Item 21 for Book Model.
- **Task 25:** Implement Item 25 for Book Model.
- **Task 26:** Implement Item 22 for Book Model.
- **Task 27:** Implement Item 26 for Book Model.
- **Task 28:** Implement Item 23 for Book Model.
- **Task 29:** Implement Item 27 for Book Model.
- **Task 30:** Implement Items 37, 38 for Book Model.
- **Task 31:** Implement Item 39 for Book Model.
- **Task 32:** Implement Items 14, 16.
- **Task 33:** Implement Items 17, 18.

**Software Development****Sprint Backlog****Sprint 4**

- **Task 34:** Implement Availability Model by looking at item 32.
- **Task 35:** Implement Items 20, 24 for Availability Model.
- **Task 36:** Implement Item 21 for Availability Model.
- **Task 37:** Implement Item 25 for Availability Model.
- **Task 38:** Implement Item 22 for Availability Model.
- **Task 39:** Implement Item 26 for Availability Model.
- **Task 40:** Implement Item 23 for Availability Model.
- **Task 41:** Implement Item 27 for Availability Model.
- **Task 42:** Implement Items 37, 38 for Availability Model.
- **Task 43:** Implement Item 39 for Availability Model.
- **Task 44:** Implement Item 19.