Story ID: DASH-001
Title: Implement Interactive Dashboard Module
Type: Feature
Priority: High
Reporter: [Your Name]
Assignee: [Assigned Developer]
Status: To Do
Sprint: [Sprint Name]

Description

As an authenticated user, I want to access a central dashboard that displays key business metrics, recent activities, and quick navigation options, so that I can have a real-time overview of system performance and quickly access other modules.

Functional Requirements

1. **Authentication Check**
    - The dashboard must only be accessible to logged-in users.
    - Redirect unauthenticated users to the login page.
2. **Real-Time Statistics Section**
    - Display key metrics:
        - Total Users
        - Total Customers
        - Active AMCs
        - Pending Tickets
        - Monthly Revenue
        - Low Stock Items
    - Data should be fetched via API calls.

    - Display loading indicators while data is being fetched.
    - If API fails, display fallback values with a warning message.
3. **Recent Activities Section**
    - Show a chronological list of system activities with timestamps.
    - Support pagination or “Load More” for activity history.
    - Highlight important activities (e.g., urgent tickets).
4. **Quick Navigation Cards**
    - Provide clickable stat cards that redirect to respective modules (e.g., User Management, Service Management, Inventory).
    - Use distinct icons and colors for each card.
5. **Responsive Design**
    - The layout should adjust seamlessly for desktop, tablet, and mobile.
    - Ensure compatibility with Chrome, Firefox, Edge, and Safari.
6. **Performance Considerations**
    - Dashboard should load within 2–3 seconds on standard broadband.
    - Use caching for frequently accessed metrics to improve speed.
7. **Error Handling**
    - Show a clear error state if statistics or activities fail to load.
    - Retry fetching data if the user clicks a "Retry" button.

Acceptance Criteria

- Users are redirected to the dashboard immediately after successful login.
- Unauthenticated users cannot access the dashboard.

- Real-time statistics display correct values fetched from the API.
- Recent activities show the latest events with accurate timestamps.
- Stat cards are clickable and navigate to their respective modules.
- The dashboard is fully responsive across supported devices and browsers.
- If API fails, fallback data with a warning is shown instead of blank UI.
- The dashboard loads within 3 seconds under normal network conditions.

User Flow

1. User logs in successfully.
2. Authentication check verifies access rights.
3. API requests are sent for:
    - Real-time statistics
    - Recent activities
4. Loading indicators are displayed until API responses arrive.
5. Dashboard sections are populated with real-time data or fallback values.
6. User can click stat cards to navigate to detailed module pages.

Non-Functional Requirements

- **Security:** Data must be fetched via secure HTTPS endpoints.
- **Scalability:** API endpoints should support high concurrency.
- **Maintainability:** Componentized UI for easy updates to statistics or activities.
- **Accessibility:** Dashboard should be keyboard-navigable and screen-reader friendly.

If you want, I can also create a **UI Wireframe** or **Table of API Endpoints** section for this Dashboard module so it becomes complete like a product spec.

Do you want me to prepare those next?