**US 1 – Configure Al Amin Connection Settings**

**User Story:** **As** an Admin, **I want to** configure the connection settings for the Al Amin system by entering the required credentials and testing the connection before saving, **So that** FAAINEX ERP system can successfully integrate with Al Amin.

**Acceptance Criteria**

1. Admin must be able to see the following input fields in the Al Amin Connection Settings section:
   * Server IP
   * Username
   * Password (masked)
   * Database Name
2. Two buttons must be available:
   * **Try Connection** – to test the connection
   * **Save** – to save the settings
3. On clicking **Try Connection**:
   * The system attempts to connect to the Al Amin server using the entered credentials.
   * Show a message:
     + “Connection Successful.” (**in green**) if connection is successful.
     + “Connection Failed. Please check your credentials.” (**in red**) if unsuccessful.
4. On clicking **Save**:
   * Save button is disabled unless **Try Connection** was successful.
   * If saving is successful, display: "Saved Successfully."
   * If saving fails, display: "Save Failed."
5. Password field should be masked with option to toggle visibility.

**UI Requirements**

* A form section titled **"Al Amin Connection Settings"** under Admin Settings.
* Input fields with proper labels:
  + **Server IP**: Text field (192.168.1.1)
  + **Username**: Text field
  + **Password**: Password field with "Show/Hide" toggle
  + **Database Name**: Text field
* Buttons:
  + **Try Connection** – primary button
  + **Save** – secondary button (disabled unless connection test is successful)

**Validation Rules**

|  |  |  |
| --- | --- | --- |
| **Field** | **Validation** | **Error Message** |
| Server IP | Required, Valid IP format | “Please enter a valid Server IP.” |
| Username | Required | “Username is required.” |
| Password | Required | “Password is required.” |
| Database Name | Required | “Database name is required.” |

**Database Requirements**

A table or configuration store for integration settings, Al Amin\_connection\_settings:

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Type** | **Min Length** | **Max Length** |
| server\_ip | VARCHAR | 7 | 45 |
| username | VARCHAR | 3 | 64 |
| password | VARCHAR (encrypted) | 8 | 265 |
| db\_name | VARCHAR | 1 | 64 |
| created\_at | TIMESTAMP |  |  |
| updated\_at | TIMESTAMP |  |  |

**API Requirements**

* **POST** /api/admin/Al Amin/try-connection  
  Payload: {server\_ip, username, password, db\_name}  
  Response:
  + Success: {status: "success", message: "Connection Successful.”}
  + Error: {status: "error", message: "Connection Failed.”}
* **POST** /api/admin/Al Amin/save-connection  
  Payload: {server\_ip, username, password, db\_name}  
  Response:
  + Success: {status: "success", message: "Saved Successfully.”}
  + Error: {status: "error", message: "Save Failed.”}
* **GET /api/admin/al-amin/settings**  
  Fetch existing Al Amin connection settings  
  **Response**
* {
* "server\_ip": "192.168.1.1",
* "username": "admin",
* "db\_name": "alamin\_db"
* // password is never returned for security
* }

**Assumptions**

* Passwords will be encrypted before storing.
* Only a successful "Try Connection" allows proceeding to "Save."
* Data encrypted in HTTPS.
* Connection test should complete within 1 second.