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***The startup has developed a financial application with the following***

***characteristics:***

***● User login and registration***

***● Show the user's account balance.***

***● Block and unblock a user's credit card.***

***Challenge:***

***3. Backend functionality testing: Identify key backend functionalities that support the features of the application.***

**3. Backend Functionality Testing**

**According to what has been said, these would be the key functionalities:**

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| **FUNCTIONALITY** | **Processes** |
| 1. User Authentication | * Credential Validation * Session Management * Handling Failed Attempts or Account Blocking |
| 1. User Management | * Registration of new users. * Email verification. * User information update. |
| 1. Account management | * Show account balance * Balance Update * Transaction history |
| 1. Credit Card Management | * Credit card lock * Credit card unlocking. * Card status notifications |

**Backend Test Cases**

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| --- | --- | --- | --- | --- |
| Test Case | Description | Test Steps | Expected result | Approval/Rejection Criteria |
| API01  Login Credential Validation | Send a POST request with valid credentials to the authentication endpoint | 1.Send POST request to /api/login with valid credentials. | The response includes an authentication token and status 200. | The token is valid and the response status is 200. |
| API 02  New User Registration | Send a POST request with valid data to the registration endpoint. | 1.Send POST request to /api/register with valid user data. | The response includes a success message and 201 status. | The response status is 201 and the success message is displayed. |
| API03  Credit Card Blocking | Send a POST request to block a credit card | 1.Send POST request to /api/credit-card/block with the card ID. | Send POST request to /api/credit-card/block with the card ID. | The response status is 200 and the success message is displayed. |