

Project Name

Parabank + Restfulbooker

Project Idea

Testing manual & automation Parabank website

Testing Api for restfulbooker website

Manual Testing :

User Roles

1. Guest:

- Can browse public pages, recover login info, and register as a new customer.

2. Customer:

- Can log in, view account details, transfer funds, pay bills, request loans, update profile, and view transactions.

3. Manager (Admin role for testing scope):

- Can create, update, or delete customer accounts, approve/reject loans, deposit or withdraw funds, and view all transactions.

Core Functional Modules

- Login & Registration
- Account Overview & Transaction History
- Transfer Funds
- Bill Payment
- Request Loan
- Deposit / Withdraw (Manager)
- Delete Account / Customer
- Update Contact Info
- Public Pages (Home, About Us, Services, etc.)

- **Change Password**
 - **Forgot Login Info**
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API Testing: Restful-Booker

Overview

Restful-Booker is a publicly available RESTful API used for practicing API testing. The project includes both manual testing using Postman and API automation using RestAssured + Java + TestNG.

The API simulates a hotel booking system and allows testers to validate authentication, CRUD operations, filtering, and error handling.

Core API Endpoints Covered

1. Authentication

- **POST /auth – Generate token for authorized actions (update, delete).**

2. Booking Management

- **POST /booking – Create Booking**
- **GET /booking – Retrieve all booking IDs**
- **GET /booking/{id} – Retrieve booking details**
- **PUT /booking/{id} – Full update (requires token)**
- **PATCH /booking/{id} – Partial update (requires token)**
- **DELETE /booking/{id} – Delete booking (requires token)**

3. Filtering

- **Filter by Firstname: GET /booking?firstname=**

- Filter by Lastname: GET /booking?lastname=
- Filter by Date Range: GET /booking?checkin=&checkout=

4. API Availability

- GET /ping – Health check endpoint

API Testing Scope

- Validate all REST methods (GET, POST, PUT, PATCH, DELETE)
- Validate status codes (200, 201, 400, 403, 404, 405)
- Validate request & response payloads (JSON)
- Validate authentication and token-based authorization
- Negative testing: invalid ID, wrong payload, missing data
- Data validation after update/delete operations
- Filtering accuracy based on request parameters
- Error handling validation for unsupported methods

Manual API Testing Activities

- Design test cases for all API endpoints
- Execute requests using Postman
- Validate functional requirements
- Log defects and analyze API behavior

API Automation Activities

- Build a framework using RestAssured + Java + TestNG
- Create reusable methods for requests and assertions
- Automate token creation, booking creation, booking retrieval, update & delete operations
- Implement positive, negative, and boundary validations
- Generate automation execution report

Team Members

- 1. Team Leader: Abdelrahman Said El-Badry**
 - 2. Mohamed Ali Khalil**
 - 3. Mohamed Alaa El-Din Omar**
 - 4. Nour El-Din Kamal Mostafa**
 - 5. Mohamed Reda Saqr**
 - 6. Rodina Mohamed Abdelhamid**
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Work Plan

Phase 1 – Planning

- **Define objectives and scope**
- **Assign roles and responsibilities**
- **Prepare test environment setup**
- **Making SRS**

Phase 2 – Test Design

- **Create manual test cases for Parabank**
- **Write automation test scenarios for Parabank (convert manual test cases into scripts)**

Phase 3 – Test Execution

- **Execute manual test cases on Parabank**
- **Log defects in defect tracking system (Excel)**

Phase 4 – Reporting & Closure (Week 5)

- **Collect results**

- **Prepare test summary report**
 - **Present findings and close project**
 - **Submit Test Cases & Bug Report**
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Roles & Responsibilities

1. Team Leader: Abdelrahman Said El-Badry

- **Made SRS**
 - **Made Test cases for : Public page , Forgot Login Info , Login**
 - **Made bug Report for : Public page , Forgot Login Info , Login**
 - **Made Automation** Register , Sign in
 - **Made API** Get booking id , Create token
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2. Mohamed Ali Khalil

- **Made Test Cases for : Register , Transfer Funds , Find Transaction**
 - **Made Bug Report for : Register , Transfer Funds , Find Transaction**
 - **Made Automation** Update contact info
 - **Made API** Create booking
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3. Mohamed Alaa El-Din Omar

- **Made Test Cases for : Open New Account , Bill Payment , Update Contact info**
 - **Made Bug Report for : Open New Account , Bill Payment , Update Contact info**
 - **Made Automation** Find Transaction
 - **Made API** Update booking
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4. Nour El-Din Kamal Mostafa

- **Made User story & Use cases**
 - **Made Test Cases for : Request Loan , Delete account , Delete Customer , Logout.**
 - **Made Bug Report for : Request loan , Logout**
 - **Made Automation** Forget login info , open new account , transfer funds , request loan
 - **Made API** Get booking , Health Check
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5. Mohamed Reda Saqr

- **Made Test Cases for : Deposit , Withdraw**
 - **Made Automation** Bill Payment
 - **Made API** Delete booking , Partial update booking
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6. Rodina Mohamed Abdelhamid

Instructor

***Abdelrahman Osama**

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- **KPIs (Key Performance Indicators)** – Metrics for project success (e.g., response time, system uptime, user adoption rate).