### **Test Plan: Opay Mobile App - Core Features**

**1. Scope of Testing**

This test plan covers the functional and non-functional testing of the core features of the Opay Mobile App.

**In Scope:**

* **Sign-up**: User registration, password creation
* **Login**: Existing user recognition, user accessibility/ profile accessibility
* **Forgot password**: Inability to login, receiving verification code, receiving email on registered account for re-login
* **View Transaction History:**  Fund transfers (internal and external), bill payments, and airtime purchases, withdrawal history, top ups.

**Out of Scope:**

* **User Dashboard:** UI components like balance visibility toggle, promotional banners, and quick action buttons are excluded.
* **Bill Payments:** Functionality related to biller selection, scheduling, and payment confirmations will not be tested.
* **Airtime Purchase:** Recharge flows, promo alerts, and airtime history are out of scope.
* **Wallet Management:** Features such as wallet top-up, withdrawals, and statement downloads are not part of this test.
* **Advanced Security Features:** Testing of biometric login, PIN management, 2FA, and suspicious login alerts is not included.
* **Notifications:** In-app, push, SMS, and email notifications are excluded.
* **Settings and Profile Management:** Any tests related to user profile, notification preferences, or account settings are out of scope.
* **UI responsiveness across devices:** Device compatibility and UI adaptability across screen sizes will not be tested during this cycle.
* **Performance, stress, and load testing:** Non-functional testing is not covered in this round.

**2. Objectives and Strategy**

**Objectives:**

* Validate the user sign up process, including field validations, OTP verification, password requirements, BVN/NIN check, ID upload and successful redirection to the dashboard.
* Ensure proper handling of duplicate sign-ups, missing or invalid fields , and enforcement of password complexity rules during registration.
* Verify the login process with valid and invalid credentials including support for email/phone login and biometric options (face ID/fingerprint where applicable).
* Ensure that error messages are displayed appropriately for incorrect login attempts, missing fields, and system issues.
* Check session management and security controls, such as auto-logout after inactivity and login alerts when accessed from another device.
* Verify the forgot password flow, including OTP or secure link delivery based on email/phone input, proper handling of expired or incorrect OTPs, and password reset validations.
* Validate that users can access and view their transaction history, with correct filtering by date, type, or status, and display of all necessary transaction details.
* Ensure transaction history supports proper pagination or scrolling, and handles empty states gracefully (e.g. “No transactions yet”).
* Check if users can download or share receipts for their transactions directly from the history page.
* Identify and report any defects or usability issues in the sign-up, login, forgot password, and transaction history features to ensure a smooth and secure user experience.

**Strategy:**

Our testing strategy will involve manual testing across different levels of the application.

* **Component Testing:** Individual components, such as the login form or the fund transfer module, will be tested in isolation to ensure they function as expected.
* **Integration Testing:** We will test the interaction between different modules of the application and with third-party services to ensure seamless data flow.
* **User Acceptance Testing (UAT):** A select group of end-users will test the application to ensure it meets their needs and expectations.
* **Compatibility Testing:** We will test the application on a range of devices (iOS and Android) and operating system versions to ensure consistent performance.
* **Security Testing:** We will conduct vulnerability assessments and penetration testing to identify and address potential security loopholes.

**3. Test Items and Features**

The following features will be tested:

1. **User Sign Up:**

* Users enter their phone number to sign up.
* The system checks if the phone number is in the correct format.
* Passwords must be strong , must be at least 6 characters of numbers.
* If required field is missing or incorrect, an error message shows(e.g ‘’name/email/phone number/password is required’’ or ‘’name/email/phone number/password is missing’’)
* After submitting a phone number, the user receives a code (OTP) on their phone number to verify it.
* Users provide either a BVN or NIN for identity check.
* The system must guide users through Face/Photo Capture verification by providing clear on-screen instructions (e.g., turn head, look straight, blink), and users must be able to successfully complete the verification by following these directions.
* Users provide either BVN or NIN for identity check.
* Users agree to the Terms and Conditions before they can continue.
* If the sign up is successful, the user sees a confirmation message(Success ! Congrats ! Your account details are shown below) and goes to their dashboard.
* Users cannot register again with the same phone number.
* If their phone supports it, they should be able to use Face ID

1. **User Login:**

* Users log in using their email/ phone number and their password.
* If the login details are incorrect, user get an error message (e.g ‘’please enter valid phone number’’, ‘’please enter valid phone number/email’’)
* If the login details are missing, the user is not able to access the ‘login’ button.
* Users choose to show or hide their password as they type using the toggle icon
* After logging in successfully, users are taken to their dashboard.
* If someone logs in from a new device , the user should be asked for Face ID verification.
* If a user stays inactive for 5-20 minutes, the system logs them out automatically.
* The system has 5 limits of repeated wrong attempts to stop people from guessing passwords.
* If the user’s phone supports it, they can also use Face ID or fingerprint to log in.

1. **Forgot Password**

* Users reset their password using their phone number or email.
* If a user uses a phone number, they get an OTP code by SMS.
* If users use email, they are sent a notification before they have access to change password.
* The OTP must be correct and still valid. If it is wrong or expired, they see a message (e.g ‘’wrong OTP’’ , ‘’Invalid OTP’’).
* After confirming their identity, they can enter a new password (password must meet the same strength rules).
* After a successful reset , they see a confirmation and are sent back to the login screen.
* Users are able to resend the OTP, but not too many times.
* If they’re already logged in, they can also access this reset option from their setting.
* Users are to do Face ID verification before successfully resetting password.

1. **Transaction History**

* Users see their past transactions from their dashboards.
* For each transaction, users see the date, time, amount, status , and who it was sent to or received from.
* User filter transactions by date, categories and status.
* Users download or share a receipt for any transaction.
* If they have many transactions, they are able to scroll through or go to the next page.
* If they have not made any transactions yet, they should see a friendly message like ‘’No transactions yet’’

**4. Testing Schedules and Responsibilities**

| **Phase** | **Activities** | **Dates** |
| --- | --- | --- |
| **Planning phase** | Review PRD(Product Requirement Document) - Finalize test plan structure. | July 21 - July 22 2025 |
| **Test design phase** | Design test scenarios and write test cases for all core features- Sign up , Login , Forgot password and Transaction History | July 22 - July 23 2025 |
| **Execution Phase** | Execute test cases, log bugs and defects in the test tracking sheets | July 23 - July 24 2025 |
| **Reporting Phase** | Prepare final test summary report | July 24 - July 25 2025 |

**Responsibilities:**

* **QA Lead (Group 1 Members):** Manages the day-to-day activities of the QA team, and reports on testing progress.
* **QA Testers (Group 1 Members):** Collaboratively share responsibilities, execute test cases, report defects, and verify bug fixes. Every team member must participate in executing and documenting all assigned tasks
* **Developers:** Perform unit testing, fix reported defects, and support the QA team.
* **Product Manager:** Provides the PRD, clarifies requirements, and participates in UAT.

This concludes the test plan for the Opay Mobile App. Our primary goal is to ensure that we launch a product that is not only functional but also secure, reliable, and provides an excellent user experience. Thank you