

Test Plan

1. Introduction.

1.1 Purpose.

This document outlines the manual testing strategy, objectives, resources, schedule, and scope for the **AvaTrade registration process**.

It can be used as a manual during manual quality assurance activities. It describes the procedure of the testing process. The test plan is intended for project managers, product developers, and QA engineers.

The objective of the testing activities is to check functions and features of a software product developed for Windows desktop app and modern Android and iOS devices.

1.2 Scope.

This test plan covers the manual testing activities of user registration for AvaTrade app.

1.2.1 Features to be tested.

- Manual user registration with two different countries.
- Registration using social media links.
- Registration using Partner Number.

1.2.2 Features not to be tested.

- Login as registered user.
- Log off after registration.
- Register as already registered user.

1.3 Objectives.

- Ensure all listed features are tested.
- Verify that the application meets business requirements.
- Identify and report defects.
- Ensure the application is user-friendly and performs well.

1.4 References.

- [Link to AvaTrade web-site.](#)
- [Link to AvaTrade app in Google Play Store.](#)
- TODO: add Project Requirements Document.
- TODO: add Functional Specifications.

2. Test Strategy

2.1 Test Levels

- **Unit Testing:** Should be covered by developers.
- **Integration Testing:** Testing interfaces between components.
- **System Testing:** Full system functionality testing.
- **User Acceptance Testing:** Testing by end users to verify business requirements.

2.2 Test Types

- **Functional Testing**
- **Usability Testing**
- **Compatibility Testing**

2.3 Test Approach

- **Techniques:** Black Box Testing
- **Tools:** Jira, Confluence, Visual Studio Android Emulator

2.4 Test Environment

- **Hardware Requirements**
Android 12 and higher version,
iOS 14 / iPadOS 14 and higher version,
Windows 10 / 11.
- **Software Requirements:** Correct regional settings to be able to download app.
- **Test Data:** No test data need to be created on environment.
- **Test Environment:** Production.

3. Test Design

3.1 Test Case Development

Two main e2e testcases should be performed:

- 1) TC-001 - Register user from Afghanistan

Description:

Verify whole registration process for user without educational advice

Pre-Conditions:

AvaTrade app should be preinstalled on device. No one should be logged into

the AvaTrade app. Internet should be turned on.

Test data:

These values should be used in test case steps, when another behavior is not specified.

Test parameter	Value
First name	QAFirstname1
Last name	QALastName1
Password	0LhD13zrBzAzy!
Email	qaemail@qaco.com
Phone Number	1234567
Birth Date	07.05.2004
Country	Afghanistan
City	SomeCity
Street name	SomeStreet
House number	10
Postal code	1234
What is your primary occupation?	Accountancy
Are you currently employed?	Employed
What is the source of the funds you intend to invest?	Inheritance
What is your estimated annual income?	500.000 – 999.999
What is the estimated value of your savings & investments?	1-5 million
What level of financial risk are you comfortable with?	500.000 – 999.999

Environment:

Android version 14, Google Pixel 7 emulator of Visual Studio

Test Steps:

Step	Expected result
1. Open AvaTrade app	App is opened with username/password fields and ‘Sign Up’ link
2. Click “Sign Up” button on the bottom of the page	Sign-Up page with preselected user country is loaded, ‘Create My Account’ button is disabled
3. Choose Country, enter Email and Password	‘Create My Account’ button became enabled
4. Click “Create My Account” button	Personal details page is opened, country code value is ‘+93’. Progress

	bar on top of the page has value “25%”
5. Fill First Name, Last Name, Date of Birth, Phone Number	Progress bar value is changed to “45%”
6. Click ‘Continue’ button	New address fields are displayed on page (“City”, “Postal Code” and others). ‘Country of Residency’ field has preselected value ‘Afghanistan’
7. Fill City, Street Name, Number, Postal Code. Leave Country, Apartment and currency without changes.	Progress bar value is changed to “65%”
8. Click ‘Continue’ button	‘Your Financial Details’ page with four questions is displayed.
9. Fill all four dropdown questions	Progress bar value is changed to “85%”
10. Click ‘Continue’ button	Two new questions are displayed on page
11. Fill two appeared dropdowns	Progress bar value is changed to “90%”
12. Click ‘Continue’ button	‘Terms & Conditions” page appears, with pre-checked “I am not a US citizen” checkbox
13. Click on ‘Terms and Conditions” link	PDF file with terms is downloaded
14. Check “I have read, understood and accepted ... “ checkbox	Progress bar value is changed to “100%”
15. Click ‘Finish’ button	Dialog ‘Almost there’ appears with ‘Find Your Account’ button
16. Close the dialog	AvaTrade home page is displayed with ‘Start Tutorial’ dialog popped up

2) TC-002 Register user from France

Description:

Verify whole registration process for user with educational advice and verification dialog appeared

Pre-Conditions:

AvaTrade app should be preinstalled on device. No one should be logged into the AvaTrade app. Internet should be turned on.

Test data:

Test parameter	Value
First name	QAFirstname2
Last name	QALastName2
Password	qweQWE123!
Email	qaSecondEmail@qac.com
Phone Number	6543210
Birth Date	31.01.1970
Country	France
City	Cityy
Street name	NoStreet
House number	99
Postal code	999
What is your primary occupation?	Administrative
Are you currently employed?	Retired
What is the source of the funds you intend to invest?	Savings
What is your estimated annual income?	More than 5 million
What is the estimated value of your savings & investments?	More than 5 million
What level of financial risk are you comfortable with?	1-5 million
What was the extent of your trading experience over the last year?	26-50
What was the estimated value of those trades?	50,000 - 250,000
Which of the following statements can be applied to trading with leverage?	It may increase profits of losses
If you have 1000\$... what is the maximum size position you can open?	\$50000
My open position may close automatically when?	The market is moving against my position...
Which of the options below describe your primary purpose of trading with us?	Buy & hold investment

Environment:

Android version 14, Google Pixel 7 emulator of Visual Studio

Test Steps:

Step	Expected result
1. Open AvaTrade app	
2. Click “Sign Up” button on the bottom of the page	Sign-Up form with preselected user country should appear.
3. Choose country, enter Email and Password	‘Create My Account’ button became enabled
4. Click “Create My Account” button	Personal details page is opened, country code value is ‘+33’.
5. Fill First Name, Last Name, Date of Birth, Phone Number	‘Continue’ button became enabled. Progress bar value is “35%”.
6. Click ‘Continue’ button	New address fields are displayed on page (“Street Name”, “Number” and others), ‘Currency’ field has preselected value ‘EUR’
7. Fill City, Street Name, Number, Postal Code. Leave Country, Apartment and currency without changes.	Progress bar value is “45%”.
8. Click ‘Continue’ button	‘Your Financial Details’ page with four questions is displayed.
9. Fill all four questions with test data values	Progress bar value is “55%”.
10. Click ‘Continue’ button	Two new questions are displayed on page.
11. Fill two appeared dropdowns with test data values	Progress bar value is changed to “65%”
12. Click ‘Continue’ button	‘Trading Experience & Knowledge’ page appears with question about user experience
13. Click ‘Yes’ button	Two additional questions appear below on the same page
14. Fill two appeared dropdowns with test data values	Progress bar value is changed to “75%”
15. Click ‘Continue’ button	‘A Few More Questions’ page appears with three questions
16. Fill three appeared dropdowns with test data values	Progress bar value is changed to “85%”
17. Click ‘Continue’ button	One new question and confirming checkbox appear on the page. ‘Continue’ button is disabled
18. Fill dropdown value and check ‘I understand ...’ checkbox	‘Continue’ button became enabled

12. Click 'Continue' button	'Terms & Conditions' page appears, with prechecked "I am not a US citizen" checkbox
14. Check "I have read, understood and accepted ... " checkbox	Progress bar value is changed to "100%"
15. Click 'Finish' button	Warning dialog appears. 'Complete registration' button is disabled
16. Check 'I agree' checkbox	'Complete registration' button became enabled
17. Click 'Complete registration' button	Dialog 'Almost there' appears with 'Verify your account' button
18. Click 'Verify your account' button	'Verify account' page is displayed. 'ID Card', 'Utility Bill', 'Nationality' sections appear.
19. Navigate back	'Wait! Don't leave yet' dialog appears
20. Click 'Leave' button	AvaTrade home page is displayed with 'Start Tutorial' dialog popped up

3.2 Checklist Development

Functional tests

Positive checklist:

- Check dialog with video instructions on "Trading Experience & Knowledge" page
- Complete registration with filled 'Apartment, Suite, Unit Etc. (Optional)' and with changed 'Trading account base currency'
- Complete registration with "I would like to receive updates related to my account via WhatsApp" checkbox ticked and make update to account afterwards.
- Complete registration with just downloaded app
- Fill Date of Birth with UI calendar
- Initiate registration as France user, then change Country (of Residency) to France
- Add tests based on different combination of answers to the questions based on documentation
- Change phone code to different country

Negative checklist:

- Write incorrect email on first sign-up page
- Set First Name value to numbers only
- Set House Number to letters only

- Set Postal Code to letters only
* (Make other field validation tests based on testing techniques)
- Try to click 'Create my account' button without data entering
- Fill Your Personal Details form with address data, wait for validation complete and clear year field
- Empty value "Country (of Residence)" with other fields filled with values and proceed registration.

Non-Functional Checklist

Performance Testing

- Test the registration pages response time with normal load conditions.
- Validate the registration page's performance with slow 2G internet.

Usability Testing

- Test the UI user-friendliness by assessing the clarity and readability of displayed instructions.
- Verify if the error messages are clear with the right information.
- Test the accessibility of the registration page for users with special needs.

Security Testing

- Validate that the page uses encryption (e.g., HTTPS) to protect user information.
- Test for potential vulnerabilities, such as SQL injection and cross-site scripting (XSS) attacks.

Compatibility Testing

- Test that the registration page works properly for different versions within one system
- Validate that the registration page is responsive and displays correctly on multiple devices (phone, tablets)
- Ensuring compatibility with different device orientations (portrait, landscape).
- Test the compatibility of the registration page with various Window systems, Android and IOS.

Error Handling and Recovery Testing

- Validate that error messages are displayed in time and are clear to understand.
- Test the recovery mechanisms in case of network failures or interruptions during the registration process.

3.3 Test Data Management

Registration form has different field data types. Some of them can be filled with any data (within validation rules), some have ability to choose specific data only (for example, from dropdown). Test data for registration new user is mainly randomly generated, but there are exceptions (like Country dropdown etc).

Ideally, user name and email data should have prefix (like 'qa_') to allow developers create cleaning scripts to not overfill database.

3.4 Test Execution

Test execution depends on agreement with customer. Usually, such features as registration is being tested once per release circle or an automated test is generated for it.

In case defect is found, QA engineer should inform QA Lead and register an issue in a system like JIRA.

4. Test Management

4.1 Roles and Responsibilities

- **Test Manager:** Maya Rozilio Glatzman, QA Lead
- **Manual Tester:** Arseni Fiadotau, QA Engineer

4.2. Deliverables

Before testing:

- Test cases.
- Test plan.

During testing:

- Defect reports.
- Test summary report.

After testing:

- Status report.
- User acceptance test report.
- Test completion report.

5. Risk Management

5.1 Risks

- Testing app in Android emulator can be problematic if emulator has bugs
- Potential data leakage in client-server communication, that will allow intruder to access user data and financial information
- Identify potential risks (e.g., resource availability, environment issues, scope changes)
- Sudden departure of company employee threatens the loss of knowledge about the product and the cornerstones of implementation details

5.2 Mitigation

- Different Android emulators can be used to except external software bug influence
- Implement security protocols and apply two-factor authentication for the most crucial operations
- Document all the important details in Confluence or other services. Organization of knowledge sharing sessions once per week/month to let other employees know about cornerstones

6. Test Reporting

- **Report Types:** Based on test execution point above (point 3.4), test execution reports can be generated manually or with external resources once per release cycle.
- **Metrics:** test coverage, test case execution time, test case pass/fail ratio, test efficiency.

7. Approvals

- **Prepared by:** Arseni Fiadotau, 11th of June, 2024
- **Reviewed by:**
- **Approved by:**