**Sports predictions web & desktop application**

*Test plan*

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Introduction

This test plan is designed for testing the “Bet Expert” web and desktop applications. The applications are designed to allow users to view upcoming sport events and the predictions made by tipsters, and to subscribe to specific tipsters to receive their predictions. The applications also allow tipsters to create predictions for upcoming matches and view their statistics and subscribed users. In addition, an admin can create new competitions, add users, and manage the system.

Test cases

| Test Case | Test Data | Name | Use Case | Pre-condition | Result |
| --- | --- | --- | --- | --- | --- |
| TC-01 | Username: john123, Email: [john123@example.com](mailto:john123@example.com), Password: Password123 | User registration | FR1 | User is on the registration page | User enters valid username, email, and password and confirms registration |
| TC-02 | Username: john123, Email: [john123@example.com](mailto:john123@example.com), Password: (empty) | User registration | FR1 | User is on the registration page | User leaves one or more fields empty and receives a message to fill in all fields |
| TC-03 | Username: john123, Email: [john123@example.com](mailto:john123@example.com), Password: Password123 | User registration | FR1 | User is on the registration page | User enters an existing username or email and receives a message that it is already being used |
| TC-04 | Username: john123, Email: [john123@example.com](mailto:john123@example.com), Password: Password123 | User login | FR2 | User is on the login page | User enters valid username, email, and password and confirms logging in |
| TC-05 | Username: john123, Email: [john123@example.com](mailto:john123@example.com), Password: WrongPassword | User login | FR2 | User is on the login page | User enters wrong credentials and receives a notification that there is no such combination |
| TC-06 | N/A | User logout | FR3 | User is logged in | User clicks on the log out button and is transferred to the starting page |
| TC-07 | N/A | User sees profile page | FR4 | User is logged in and on the start page | User clicks on the Profile button and sees their personal information |
| TC-08 | Old Password: Password123, New Password: NewPassword123 | User changes password | FR5 | User is logged in and on the start page | User goes to the Profile page, enters old and new password, submits the request |
| TC-09 | Old Password: WrongPassword, New Password: NewPassword123 | User changes password | FR5 | User is logged in and on the start page | User enters an incorrect old password and receives a message stating it doesn't match |
| TC-10 | N/A | User sees competitions | FR6 | User is logged in and on the start page | User clicks on the Competitions page and sees all available competitions per sport |
| TC-11 | Competition: Premier League | User sees matches | FR7 | User is logged in and on the start page | User goes to the Competitions page, selects a competition, and sees all available matches |
| TC-12 | Competition: Premier League, Match: Manchester United vs. Chelsea | User views predictions | FR8 | User is logged in and on the start page | User is automatically redirected to the Competitions page, selects a competition, chooses a match, and sees predictions for the match |
| TC-13 | Competition: Premier League, Match: Manchester United vs. Chelsea | User views predictions | FR8 | User is logged in and on the start page | User is automatically redirected to the Competitions page, selects a competition with no upcoming matches, and receives a message stating there are no upcoming matches |
| TC-14 | Competition: Premier League, Match: Manchester United vs. Chelsea (No predictions) | User views predictions | FR8 | User is logged in and on the start page | User is automatically redirected to the Competitions page, selects a competition with upcoming matches but no predictions, and receives a message stating there are no predictions for the match |
| TC-15 | N/A | User sees day checked | FR9 | User is logged in and on the start page | User goes to their profile and sees a list of the predictions they have visited today |
| TC-16 | N/A | User sees day checked | FR9 | User is logged in and on the start page | User hasn't visited any predictions today and receives a message stating they haven't visited any predictions |
| TC-17 | N/A | User sees day checked | FR9 | User is logged in and on the start page | User's visited predictions list is empty and receives a message stating that it is being processed |
| TC-18 | Tipster: JohnDoe | User subscribes | FR10 | User is logged in and on the start page | User views a list of available tipsters, picks tipster/s to subscribe to, pays the subscription tax, and starts receiving predictions from the subscribed tipster/s |
| TC-19 | Competition: Premier League, Match: Manchester United vs. Chelsea, Prediction: "Manchester United will win." | Tipster creates  prediction | FR11 | Tipster is logged in | Tipster sees available competitions, chooses match/es, fills prediction creation form, and submits it |
| TC-20 | Competition: Premier League (No upcoming matches) | Tipster creates | FR11 | Tipster is logged in | Tipster sees no upcoming competitions/matches for a competition and receives a message stating there are none |
| TC-21 | Competition: Premier League, Match: Manchester United vs. Chelsea, Analysis: (long text) | Tipster creates | FR11 | Tipster is logged in | Tipster's analyze is longer than 500 characters and receives a message stating it is too long |
| TC-22 | N/A | Tipster sees stats | FR12 | Tipster is logged in | Tipster sees available competitions of their specialty, goes to their profile, and sees their success rate for a period of time and a list of subscribed users |
| TC-23 | N/A | Tipster sees stats | FR12 | Tipster is logged in | Tipster's success rate is not calculated yet and receives a message stating it is being processed |
| TC-24 | N/A | Tipster sees stats | FR12 | Tipster is logged in | Tipster can't see the list of subscribed users yet and receives a message stating it is being processed |
| TC-25 | Competition Name: Champions League, Start Date: 2023-06-01, End Date: 2023-06-30 | Admin creates competition | FR13 | Admin is logged in | Admin fills the form for a new competition and submits it |
| TC-26 | Competition Name: Champions League, Start Date: 2023-06-30, End Date: 2023-06-01 | Admin creates competition | FR13 | Admin is on the competitions control tab | Admin selects a wrong period of time and submits the form |
| TC-27 | Competition Name: (empty), Start Date: 2023-06-01, End Date: 2023-06-30 | Admin creates competition | FR13 | Admin is on the competitions control tab | Admin submits the form with empty field/s |
| TC-28 | N/A | Admin creates and assigns | FR14 | Admin is logged in | Admin is able to access the admin panel |
| TC-29 | Competition: Premier League, Home Team: Manchester United, Away Team: Chelsea, Start Time: 2023-06-01 18:00 | Admin creates and assigns | FR14 | Admin is on the matches control tab | Admin fills the form for a new match and submits it |
| TC-30 | Competition: Premier League, Home Team: Manchester United, Away Team: Chelsea, Start Time: 2023-06-01 08:00 | Admin creates and assigns | FR14 | Admin is on the matches control tab | Admin selects a wrong starting time and submits the form |
| TC-31 | Competition: Premier League, Home Team: Manchester United, Away Team: Chelsea, Start Time: (empty) | Admin creates and assigns | FR14 | Admin is on the matches control tab | Admin submits the form with empty field/s |
| TC-32 | N/A | Admin suspends | FR15 | Admin is logged in | Admin is able to access the admin panel |
| TC-33 | User/Tipster: JohnDoe | Admin suspends | FR15 | Admin is on the people control tab | Admin selects a user/tipster from the list and clicks the suspend button for that person |
| TC-34 | N/A | Admin suspends | FR15 | Admin is on the people control tab | Admin does not select a person and receives a message stating the problem |

Non-functional requirements test cases

| Test Case | Test Data | Name | NFR Number | Pre-condition | Expected Result |
| --- | --- | --- | --- | --- | --- |
| TC-01 | User tries to access Profile/Competitions page | Secure Access | NFR01 | User is not authenticated | User is prompted to login or register |
| TC-02 | User sees his data in profile page | Data Privacy | NFR01 | User accesses sensitive data | Sensitive data is only visible to the user |
| TC-03 | User registers himself or changes password | Encryption - Password | NFR02 | User registers or changes password | Password is securely stored and encrypted |
| TC-04 | User registers payment method | Encryption - Payment Info | NFR02 | User enters payment information | Payment information is securely encrypted |
| TC-05 | User navigates through one of the applications | Loading Times | NFR03 | User accesses different pages | Pages load quickly and responsively |
| TC-06 | Multiple users navigate through one of the applications | High Volume Users | NFR04 | Multiple concurrent users access the app | App maintains acceptable performance |
| TC-07 | List all predictions for picked match | High Volume Data | NFR04 | Large volume of data is processed | App maintains acceptable performance |
| TC-08 | Multiple users tried either applications | User-friendly Interface | NFR05 | User interacts with the app | Interface is intuitive and easy to navigate |