**Sports predictions web & desktop application**

*User requirements specification*

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**1. Overview**

The sports betting predictions web app is an online platform that provides users with predictions on various sports events. The web app has two types of accounts – tipsters and users. The sports covered by the web app include football, tennis, and basketball, for now. Additionally, the project includes desktop application with admin account for managing the platform.

**2. Functional requirements**

Actors: Admin, User, Tipster

1. Common requirements:

* (#FR1) All actors must be able to register in both of applications respectively. (M)
* (#FR2) All actors must be able to log in both of applications respectively. (M)
* (#FR3) All actors must be able to log out from both of applications respectively. (M)

2. Tipster account:

* (#FR4) Tipster must be able to create predictions for their sport specialty. (M)
* (#FR5) Tipster must be able to post their predictions for their sport specialty. (M)
* (#FR6) Tipster should be able to view their prediction history and performance metrics. (S)
* (#FR7) Tipster could be able to view the users subscribed to him. (C)

3. User account:

* (#FR8) User must be able to view available predictions for different sports events. (M)
* (#FR9) User should be able to view their day checked predictions. (S)
* (#FR10) User could be able to subscribe to tipster. (C)

4. Sports coverage:

* (#FR11) The web app must cover football, tennis, and basketball sports events – competitions with matches in them. (M)
* (#FR12) The web app must provide predictions from tipsters for various matches and tournaments within each sport. (M)

5. Admin account:

* (#FR13) Admin must be able to create competitions for each sport. (M)
* (#FR14) Admin must be able to create and assign matches for each competition. (M)
* (#FR15) Admin should be able to suspend tipster or user. (S)

**3. Constraints**

1. Technical constraints:

* The web app must be built using predefined technologies and frameworks that can support the required functionalities and performance which are .NET, C#, HTML and CSS.
* The web app must be hosted on a secure and reliable server with sufficient storage and bandwidth.

2. Desktop application:

* The admin account for the web app must have access to a desktop application for managing the platform.
* The desktop application must provide admin users with a dashboard for managing competitions, their matches, users, tipsters and other relevant information.

3. Time constraint:

* The project should be finished for 16 weeks as an initial version of both applications – web and desktop, respectively, should be uploaded after 6 weeks.

**4. Non-functional requirements**

1. Security:

* (#NFR01) The web app must ensure secure access and data privacy for all users (M).
* (#NFR02) The web app must use encryption for sensitive data such as user passwords and payment information (S).

2. Performance:

* (#NFR03) The web app must have fast and responsive loading times (S).
* (#NFR04) The web app must be able to handle a large volume of users and data without compromising performance (S).

3. Usability:

* (#NFR05) The web app must have a user-friendly interface that is easy to navigate and understand (M).

**5. Use cases**

* *Use case 1: Registration of an admin/user/tipster (#FR1).*

*Actor: Admin/User/Tipster*

*Main Success Scenario:*

1. *Actor lands on registration page in one of the applications, respectively.*
2. *Actor enters their username, email and password.*
3. *Actor confirms registration.*

*Extensions:*

*4a: Actor left one/many of the fields empty*

*The actor receives a message that they need to fill in all fields.*

*4b: Actor chooses an existing username, email*

*The actor receives a message that the username, email is already being used.*

* *Use case 2: Log in of an admin/user/tipster (#FR2).*

*Actor: Admin/User/Tipster*

*Main Success Scenario:*

* 1. *Actor opens the login page in one of the applications, respectively.*
  2. *Actor enters their username and password.*
  3. *Actor confirms logging in.*

*Extensions:*

*4a: Wrong credentials*

*The actor is notified that there is no such combination of credentials.*

* *Use case 3: Log out of an admin/user/tipster (#FR3).*

*Actor: Admin/User/Tipster*

*Main Success Scenario:*

1. *Actor is logged on in either application (#FR2).*
2. *Actor clicks on log out button.*
3. *Actor is transferred to starting page of either application.*

* *Use case 4: User views upcoming matches and different predictions by tipsters for them (#FR8).*

*Actor: User*

*Main Success Scenario:*

1. *Actor logs in (#FR2).*
2. *Actor is automatically redirected to the competitions page of application.*
3. *Actor can see the three sports categories and their competitions.*
4. *Actor can click on a competition.*
5. *Actor is redirected to page where are all available matches for the selected competition.*
6. *Actor chooses a match.*
7. *Actor can see predictions for the chosen match.*

*Extensions:*

*5a: There are no upcoming matches (empty list)*

*There is a message that says there are no upcoming matches.*

*7b: There are no predictions for a specific game (empty list)*

*There is a message that says there are no predictions for this match.*

* *Use case 5: User subscribes for a tipster (#FR10).*

*Actor: User*

*Main Success Scenario:*

1. *Actor logs in (#FR2).*
2. *Actor view a list of all available for subscription tipsters and their success rate.*
3. *Actor picks tipster/s for who to subscribe.*
4. *Actor is redirected to page for paying the subscription tax.*
5. *Actor starts to receive day by day predictions from this tipster/s as they are showed as a list with their predictions.*

*Extensions:*

*4a: Payment error occurrence.*

*There is a message which states the error.*

*5b: Not received prediction from tipster.*

*The tipster can be reported to an admin.*

* *Use case 6: Tipster creates a prediction for a match (#FR4, #FR5).*

*Actor: Tipster*

*Main Success Scenario:*

1. *Actor logs in (#FR2).*
2. *Actor sees available competitions of his specialty.*
3. *Actor chooses match/es to make prediction for.*
4. *Actor fills prediction creation form and submits it.*
5. *Prediction is assigned to match and is available for users to see it.*

*Extensions:*

*2a: There are no upcoming competitions/matches of a competition (empty list)*

*There is a message that says there are no upcoming competitions/matches for a competition.*

*4b: The actor’s analyze is longer than 500 characters.*

*There is a message that says the analyze is too long.*

* *Use case 7: Tipster sees his statistics for a period of time and his subscribed users (#FR6, #FR7).*

*Actor: Tipster*

*Main Success Scenario:*

1. *Actor logs in (#FR2).*
2. *Actor sees available competitions of his specialty.*
3. *Actor goes to his profile.*
4. *Actor sees his success rate for a period of time and a list with his subscribed users.*

*Extensions:*

*4a: Actor’s success rate is not calculated.*

*The actor has a message in his profile that his success rate is being processed.*

*4b: Actor can’t see the list of subscribed users.*

*The actor has a message in his profile that his list of subscribed users is being processed.*

* *Use case 8: User sees his day checked predictions (#FR9).*

*Actor: User*

*Main Success Scenario:*

1. *Actor logs in (#FR2).*
2. *Actor goes to his profile.*
3. *Actor sees a list of the predictions he has visited today.*

*Extensions:*

*3a: Actor hasn’t visited predictions, yet.*

*There is a message in his profile that he hasn’t visited any predictions today.*

*3b: Actor’s visited predictions list is empty.*

*There is a message that his visited today predictions is being processed.*

* *Use case 9: Admin creates new competition (#FR13).*

*Actor: Admin*

*Main Success Scenario:*

1. *Actor logs in (#FR2).*
2. *Actor is redirected to admin panel.*
3. *Actor chooses the tab page for competitions control.*
4. *Actor fills the form for a new competition.*
5. *Actor submits the form.*

*Extensions:*

*5a: Wrong period of time is picked.*

*There is a message box which states the problem.*

*5b: Empty field/s.*

*There is a message box which states the problem.*

* *Use case 10: Admin creates and assigns a match to competition (#FR14).*

*Actor: Admin*

*Main Success Scenario:*

* + 1. *Actor logs in (#FR2).*
    2. *Actor is redirected to admin panel.*
    3. *Actor chooses the tab page for matches control.*
    4. *Actor fills the form for a new match.*
    5. *Actor submits the form.*

*Extensions:*

*5a: Wrong starting time is picked.*

*There is a message box which states the problem.*

*5b: Empty field/s.*

*There is a message box which states the problem.*

* *Use case 11: Admin suspends a tipster/user (#FR15).*

*Actor: Admin*

*Main Success Scenario:*

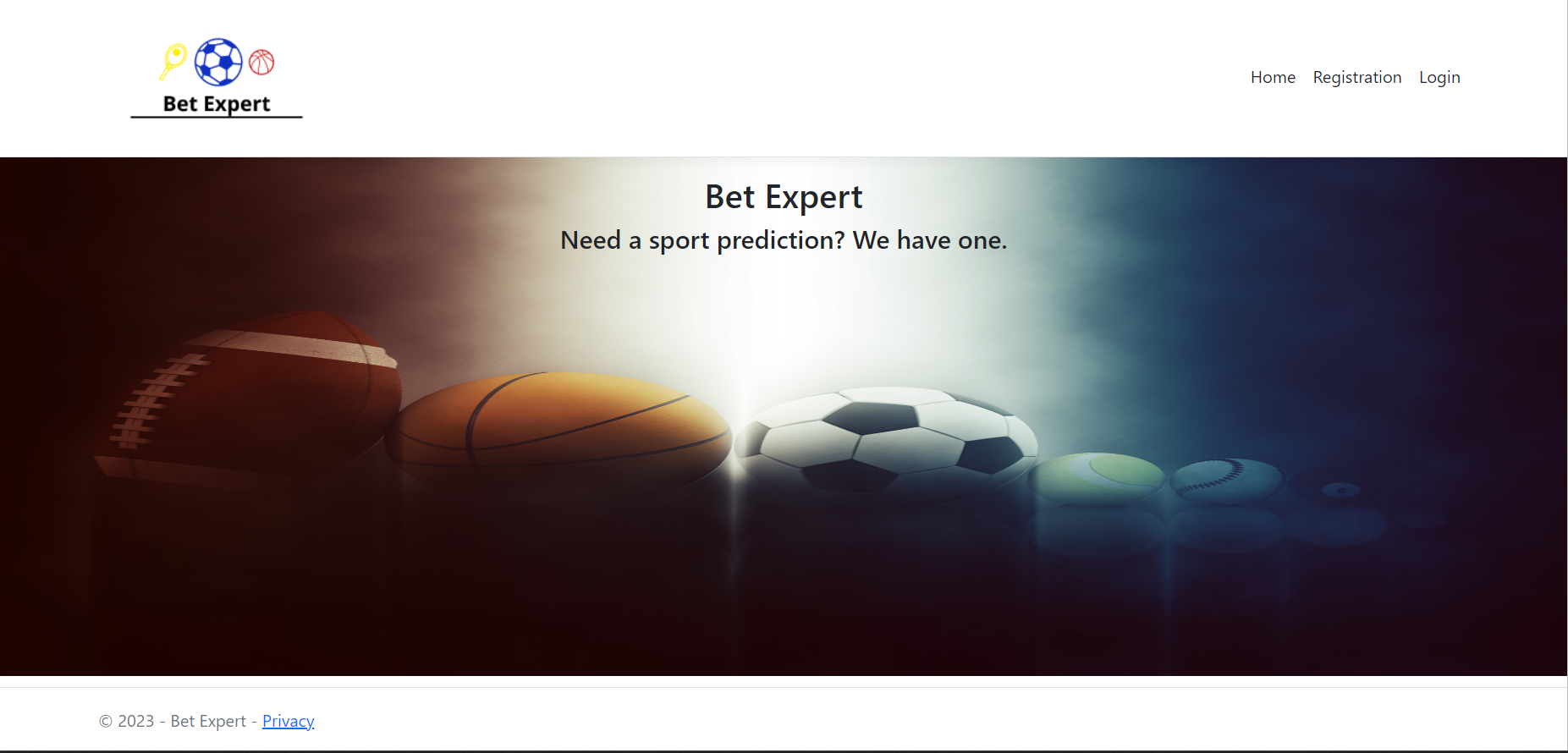
* 1. *Actor logs in (#FR2).*
  2. *Actor is redirected to admin panel.*
  3. *Actor chooses the tab page for people control.*
  4. *Actor picks a user/tipster from the list of people.*
  5. *Actor clicks suspend button for that person.*

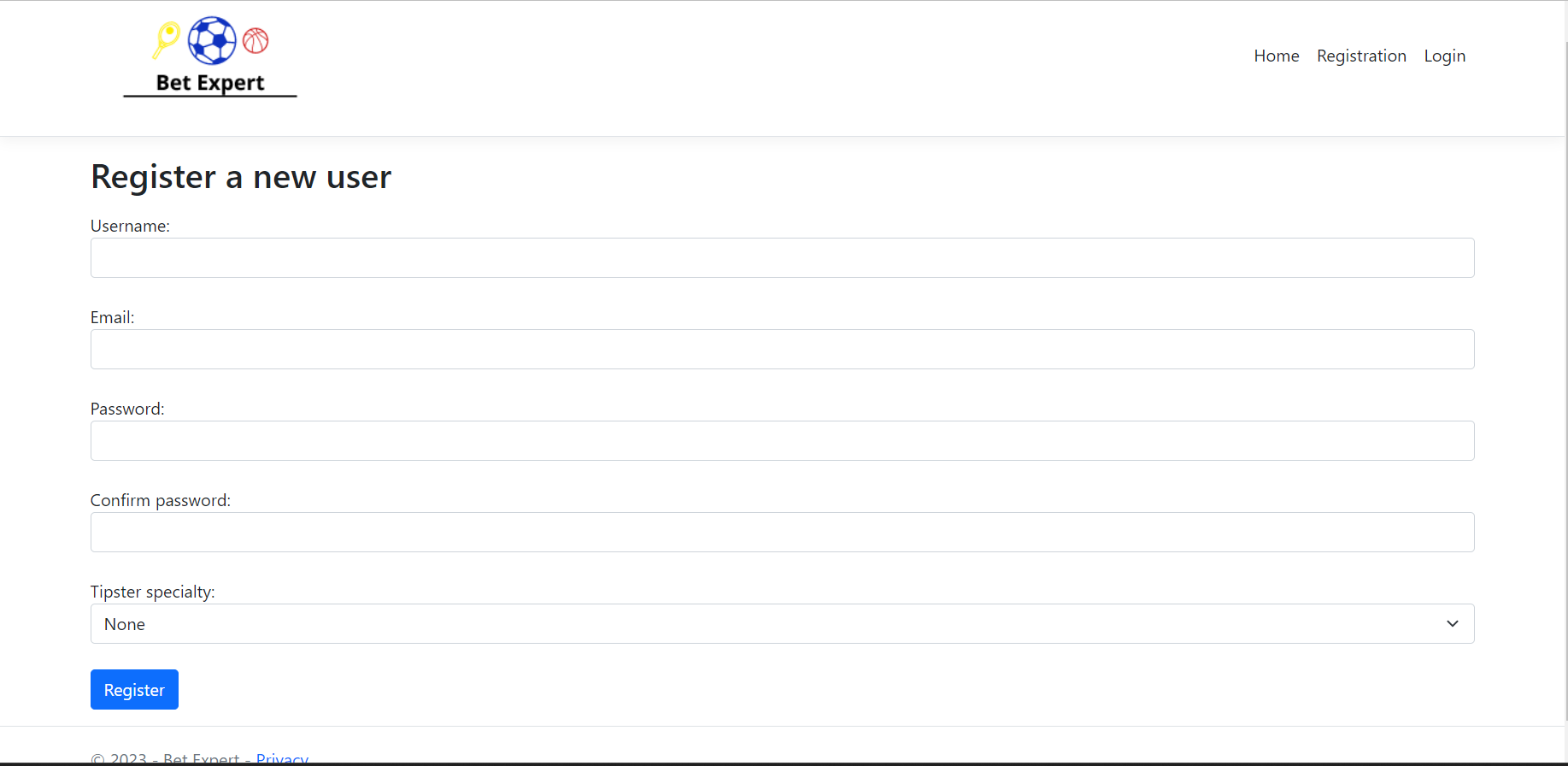
*Extensions:*

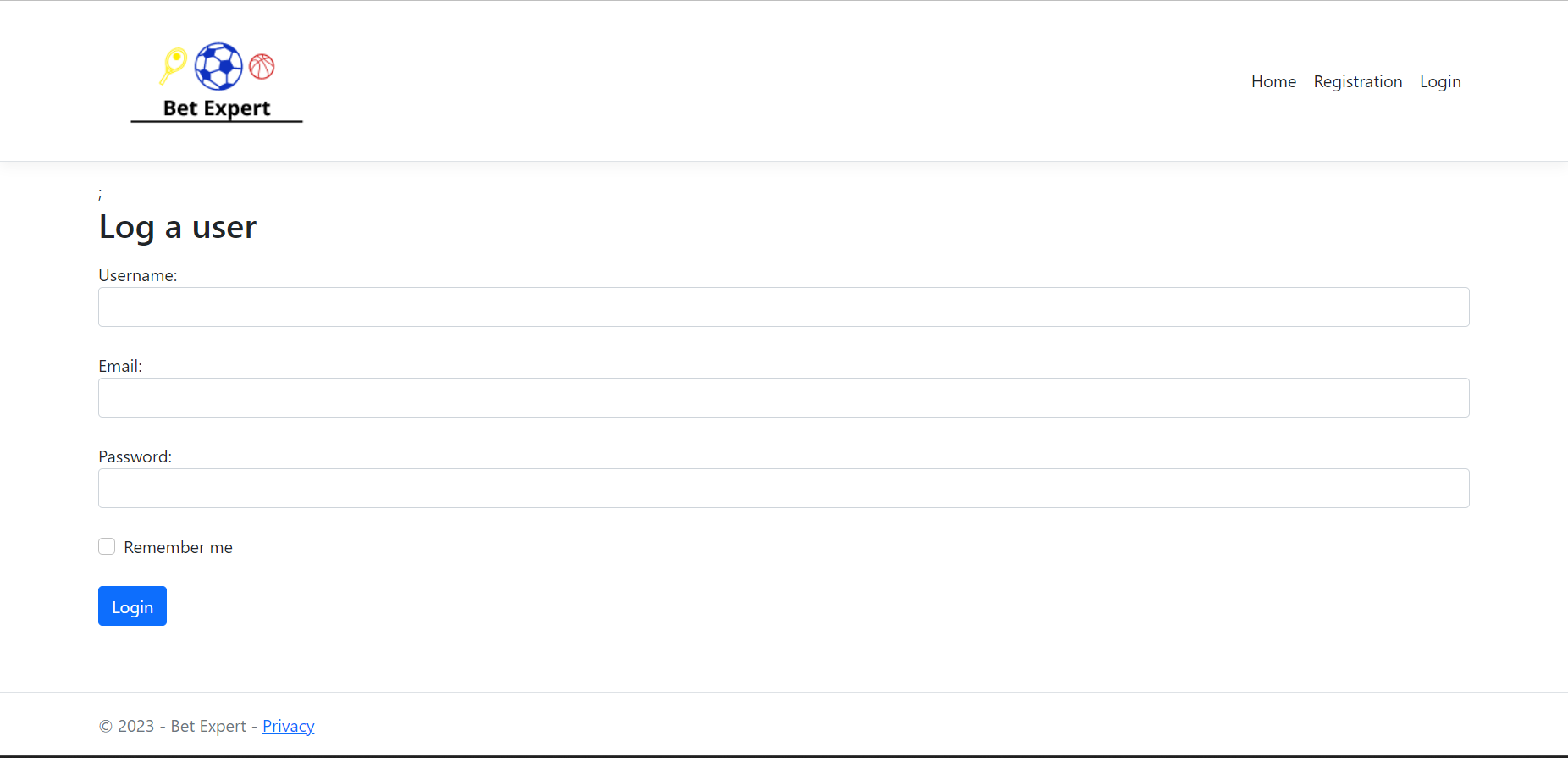
*5a: Person is not picked.*

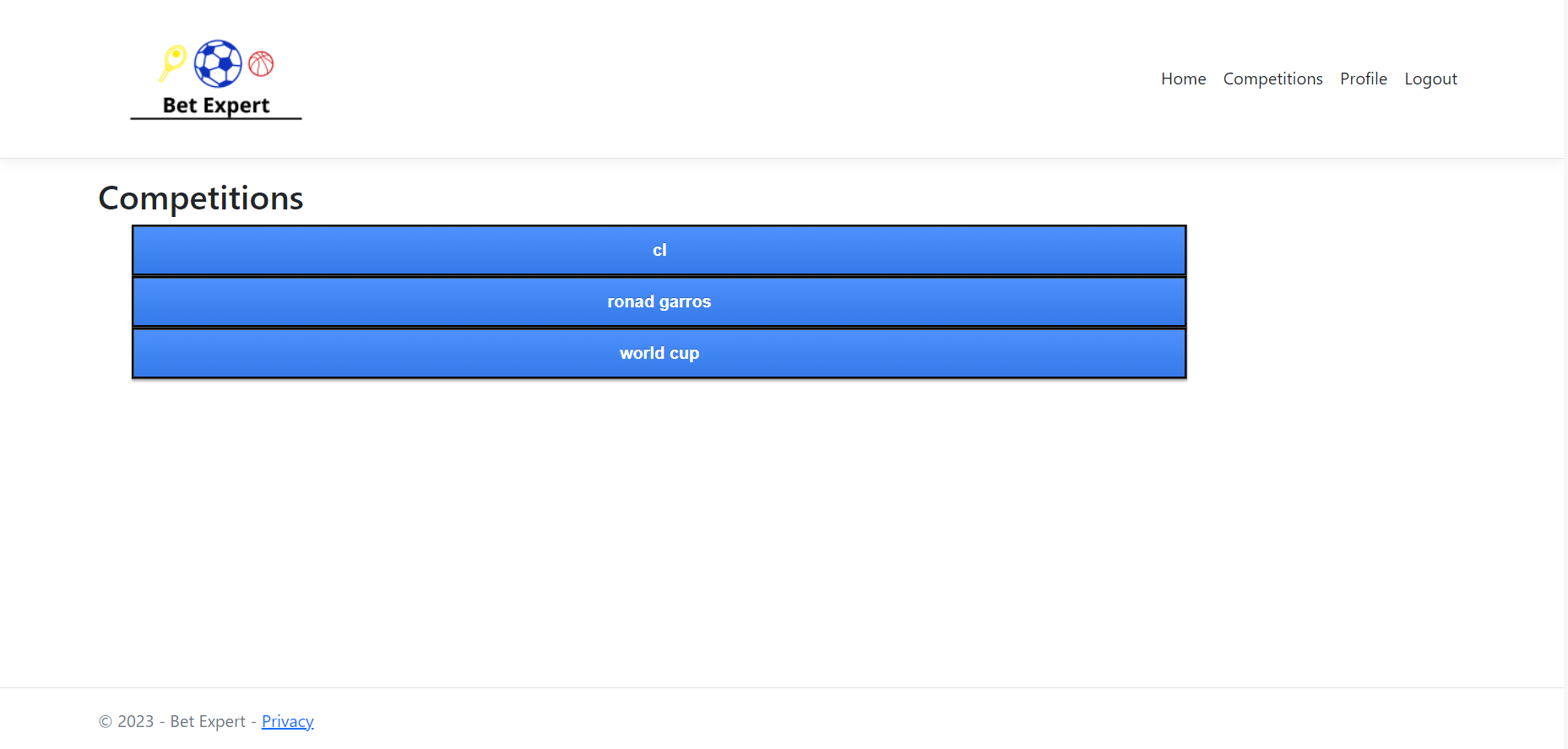
*There is a message box which states the problem.*

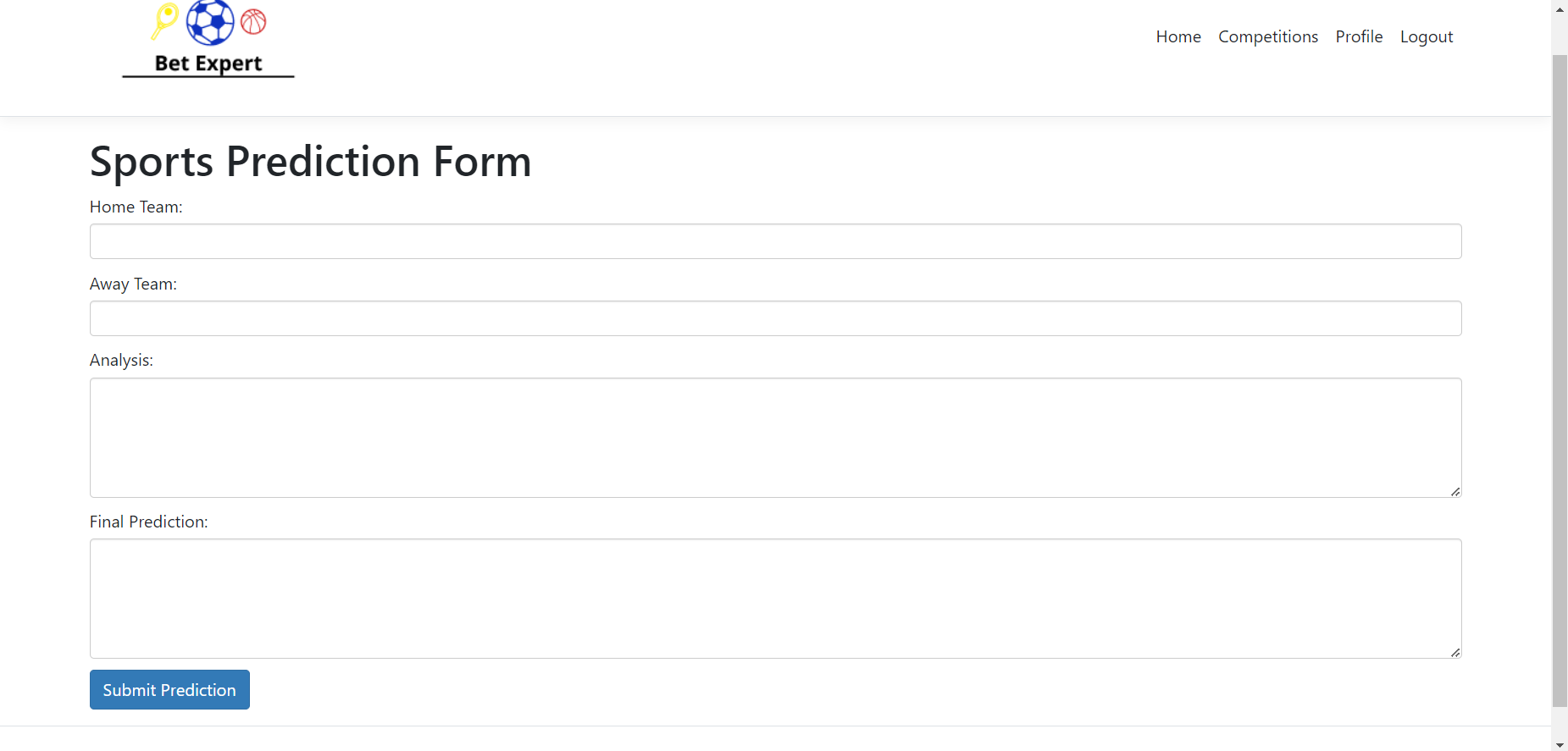
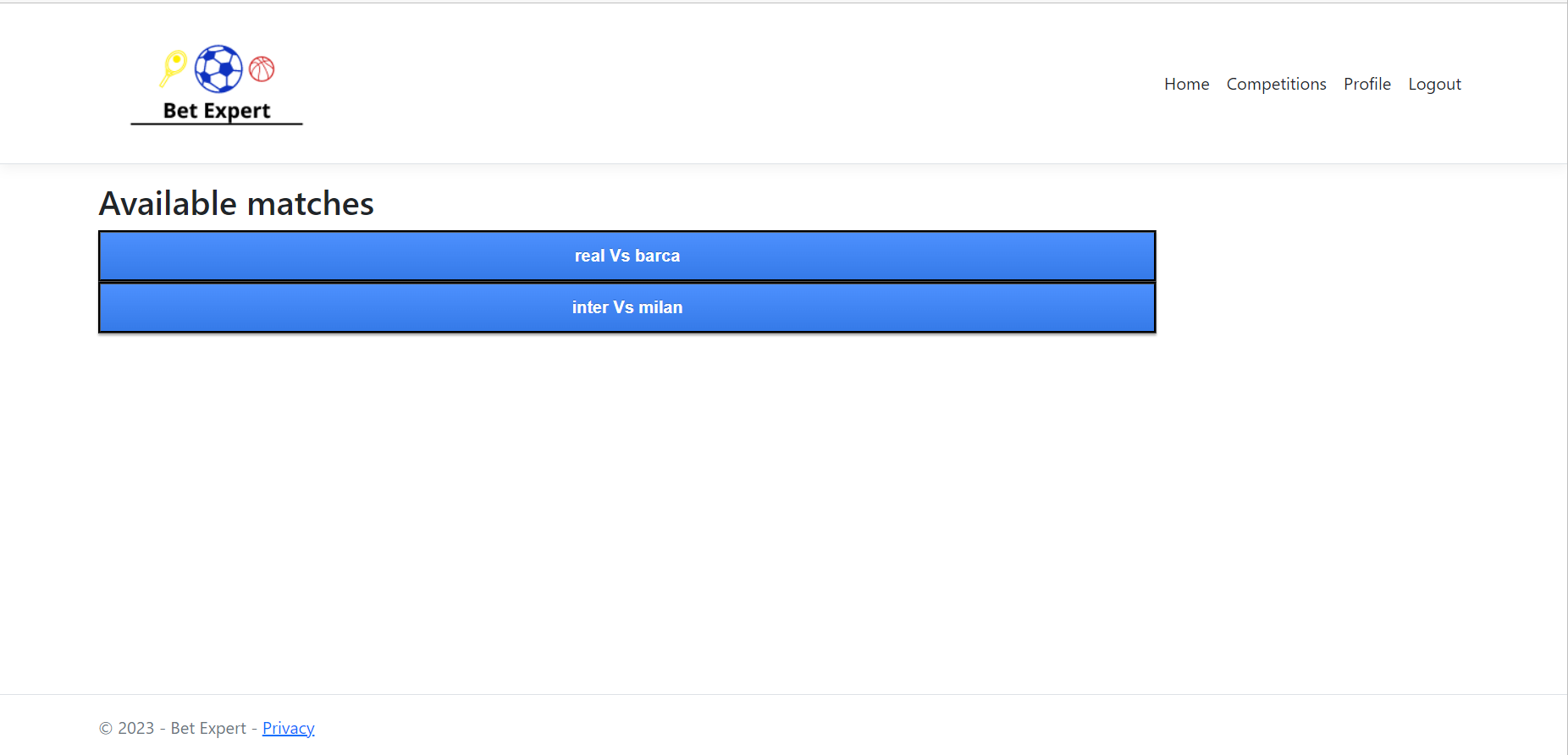
**5. Wireframes**

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