Final Project Proposal:
FanHub

Overview:

1. What is the problem we are trying to solve? Well, I'm a sports fan and every time I try to search a player or a team I have to go to different platforms or websites. Searching for different live scores, predictions, social media, and betting odds across various platforms is actually a bit of a long process sometimes frustrating along the way. FanHub aims to solve this by offering an all-in-one personalized sports experience.
2. Why are we doing this? Simple Just like I want to be up to date on scores, updates, and predictions, but clustered information leads to a poor user experience. This app will consolidate all relevant data in one platform, making it easier for fans to follow what matters most to them.
3. Who is the audience?
   - Primary audience: Sports fans who follow teams and players in multiple leagues.
   - Secondary audience: Fantasy sports players, bettors, and social media enthusiasts.
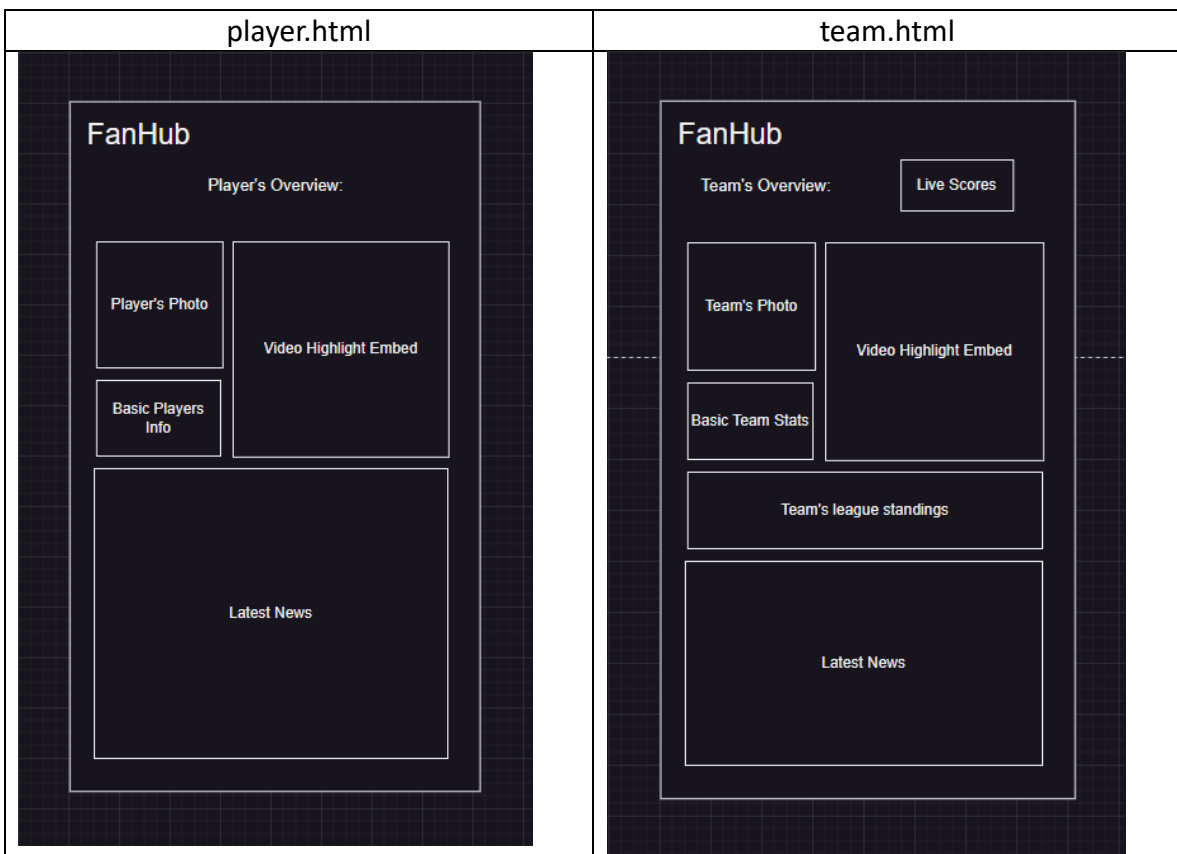
List of Major Functions:

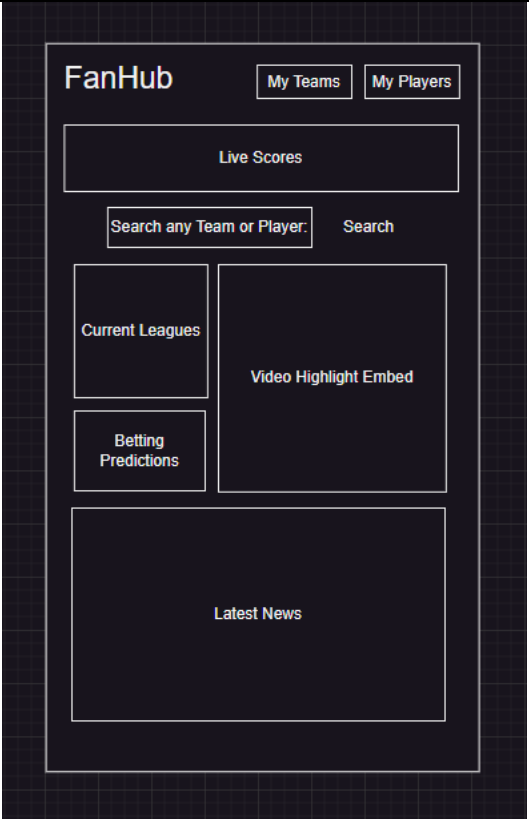|	
1. **User Authentication:**	• Login and registration using JWT (JSON Web Tokens) to authenticate users and protect personal data.
2. **Favorite Teams and Players Selection:**	• Users can select up to five favorite teams and players across different sports and leagues. • The homepage will display news, updates, and live scores for their favorites. • Fetch and set to localStorage
3. **Live Scores and Updates:**	• Real-time scores and updates from multiple sports leagues (football, basketball, tennis, etc.). • Push notifications for score changes, game starts, and key events.

4. Betting Odds and Predictions:	• Integration with betting platforms API to provide live odds for ongoing games. • Betting predictions based on statistics and expert analysis using API.
5. News and Video Highlights:	• Aggregation of news articles and video highlights from various sports sources. • Users can view top news and highlights for their favorite teams and players.
6. Social Media Access: (optional)	• Integrated access to social media feeds of favorite players and teams (e.g., Twitter, Instagram). • Fans can stay updated with social posts and interact directly from the app.
7. Dashboard and Personalization:	• A customizable dashboard that prioritizes content based on favorite teams/players. • Users can toggle between different views (e.g., news first, scores first, etc.). (optional)

Wireframes of Major Views:

1. Mobile Wireframes (initial focus):

login.html	selection.html

FanHub

Please Log In

UserName:
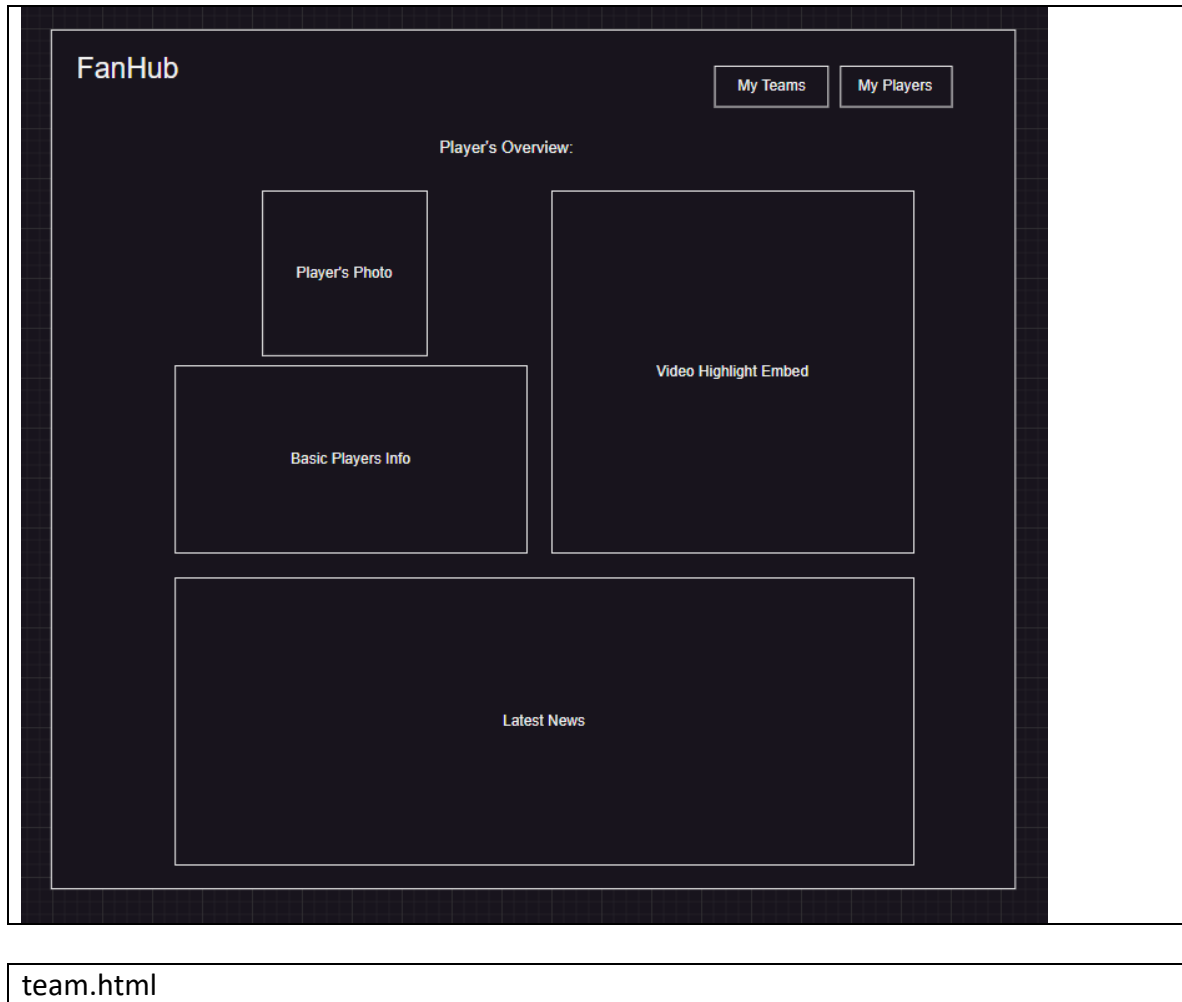
Password:

Log In

FanHub

Please Select Your favorite Team And Player

Search your Team/Player: Search

player.html

FanHub

Player's Overview:

Player's Photo

Video Highlight Embed

Basic Players Info

Latest News

team.html

FanHub

Team's Overview: Live Scores

Team's Photo

Video Highlight Embed

Basic Team Stats

Team's league standings

Latest News

dashboard.html/index.html	
FanHub My Teams My Players Live Scores Search any Team or Player: Search Current Leagues Video Highlight Embed Betting Predictions Latest News	

2. Desktop Wireframes:

login.html

selection.html

player.html

FanHub

My Teams My Players

Player's Overview:

Player's Photo

Video Highlight Embed

Basic Players Info

Latest News

team.html

FanHub

My Teams   My Players

Team's Overview:

Team's Photo

Live Scores

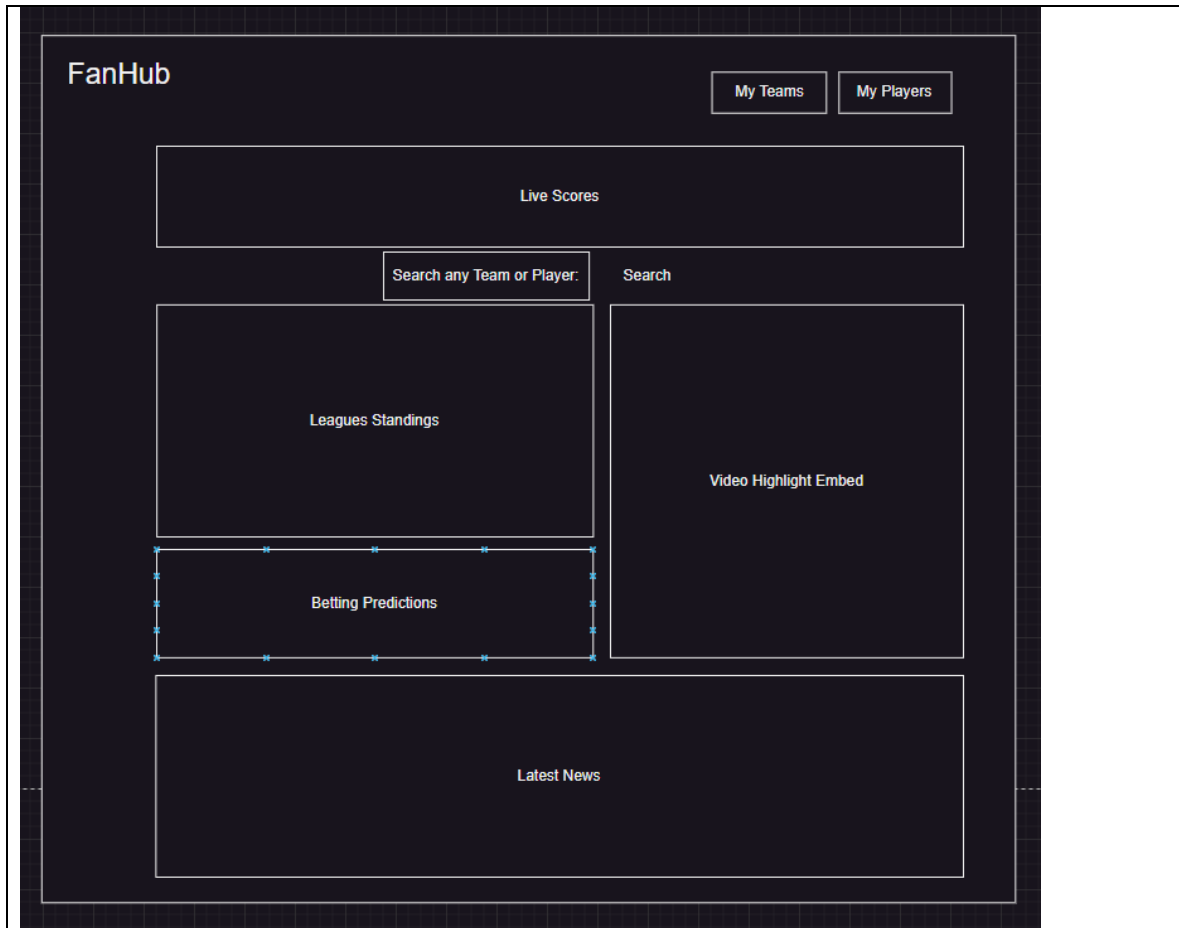Basic Team Stats

Video Highlight Embed

Team's league standings

Latest News

dashboard.html/index.html

External API Data Sources:

1. Live Sports API (FlashLiveSports) for live scores and match updates.
2. Video Highlights (Free Football (Soccer) Videos API)
3. Betting Odds API (BetsAPI) for odds and betting data.
4. News and Highlights API (AllScoresAPI).

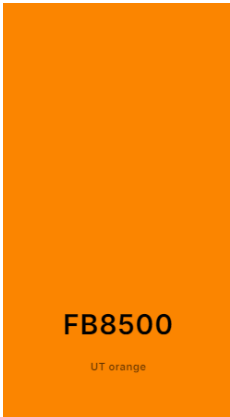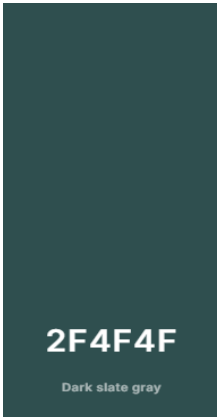## Initial Module List:

1. User Authentication Module:
   - User login/signup with JWT authentication, and secure storage.

2. Favorites Module:
   - Allows users to select and manage their favorite teams and players.
   - Uses local storage to persist user preferences.

3. Live Scores and Updates Module:
   - Fetch real-time scores and game updates from APIs.

- Display scorecards, video highlights, and player or team news.

4. Betting Odds and Prediction Module:
    - Fetch live betting odds for ongoing and upcoming games.
    - Display betting predictions based on stats.

5. News and Video Highlights Module:
    - Aggregate sports news and highlights based on the user's favorites.
    - Display top video clips with smooth transitions.

Colors/Typography/Specific Styling Elements:

1. **Color Palette:**

Primary: #023047 (Prussian Blue for action buttons and navigation).	**Secondary**: #FB8500 (UT Orange for notifications, odds, and highlights).	**Accent**: #2F4F4F (DarkSlateGray for background and secondary text).
023047 Prussian blue	FB8500 UT orange	2F4F4F Dark slate gray

2. **Typography:**
    - **Primary Font:** Lato

```
<style>
@import
url('https://fonts.googleapis.com/css2?family=Lato:wght@400;700&
display=swap');
</style>
CSS:
.lato-regular {
  font-family: "Lato", sans-serif;
  font-weight: 400;
```

```
             font-style: normal;
             }

             .lato-bold {
              font-family: "Lato", sans-serif;
              font-weight: 700;
              font-style: normal;
             }
```
- **Secondary Font:** Roboto
    ```
    <style>
    @import
    url('https://fonts.googleapis.com/css2?family=Lato:wght@400;700&
    family=Roboto:wght@400;500;700&display=swap');
    </style>
    CSS:
    .roboto-regular {
     font-family: "Roboto", sans-serif;
     font-weight: 400;
     font-style: normal;
    }

    .roboto-medium {
     font-family: "Roboto", sans-serif;
     font-weight: 500;
     font-style: normal;
    }

    .roboto-bold {
     font-family: "Roboto", sans-serif;
     font-weight: 700;
     font-style: normal;
    }
    ```

3. Specific Element Styling:
    - Live Scores: Cards with animated score updates.
    - Odds/Predictions: Highlighted sections with smooth transitions for changing odds.

Schedule with Milestones:

1. Week 1: Finish Proposal, set up project structure, and research APIs.

2. Week 2: Build user authentication with JWT and favorite selection module.
3. Week 3: Implement live scores, updates, betting odds and predictions with Fetch API .
4. Week 4: Finish animation CSS and design bugs.

Trello Board:

https://trello.com/b/VJHQKdNJ/fanhub