Turf Management System: Revolutionizing Turf Booking & Team Management

Introducing our innovative turf management system designed to streamline turf booking, team formation, and turf management operations. This comprehensive platform offers a range of features for both turf users and owners, simplifying the entire experience.

NEXT GEN SOCCER

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NEXT GEN SOCCER

Core Functionalities

1 Book Turf

Effortlessly reserve turf slots based on availability, time, and location.

2 Find Players

Connect with fellow players seeking teammates for matches or casual games.

3 Create Teams

Establish and manage your own team, inviting players and organizing matches.

4 Cancel Bookings

Flexible cancellation options allow for adjustments to your schedule.

5 Weather Check

Stay informed about weather conditions at the turf, making informed decisions about play.

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USE CASES

1. Registration/Login
2. Upload Turf Information
3. Booking Turf
4. Cancel Bookings
5. Turf Removal
6. Weather Monitoring
7. Player Performance tracking
8. Match Performance history
9. Feedback Submission
10. Find Player

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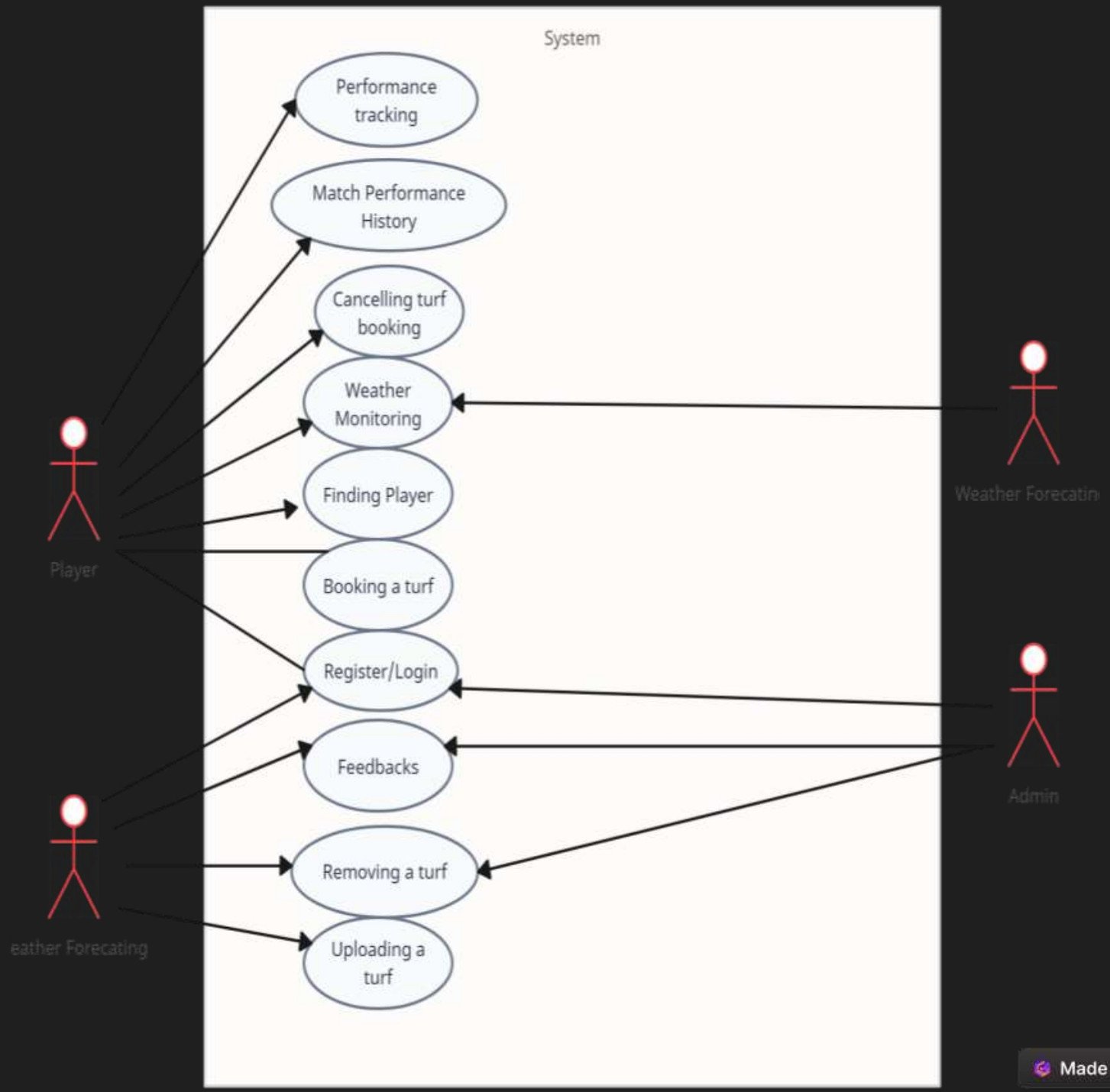
USE CASE DIAGRAM



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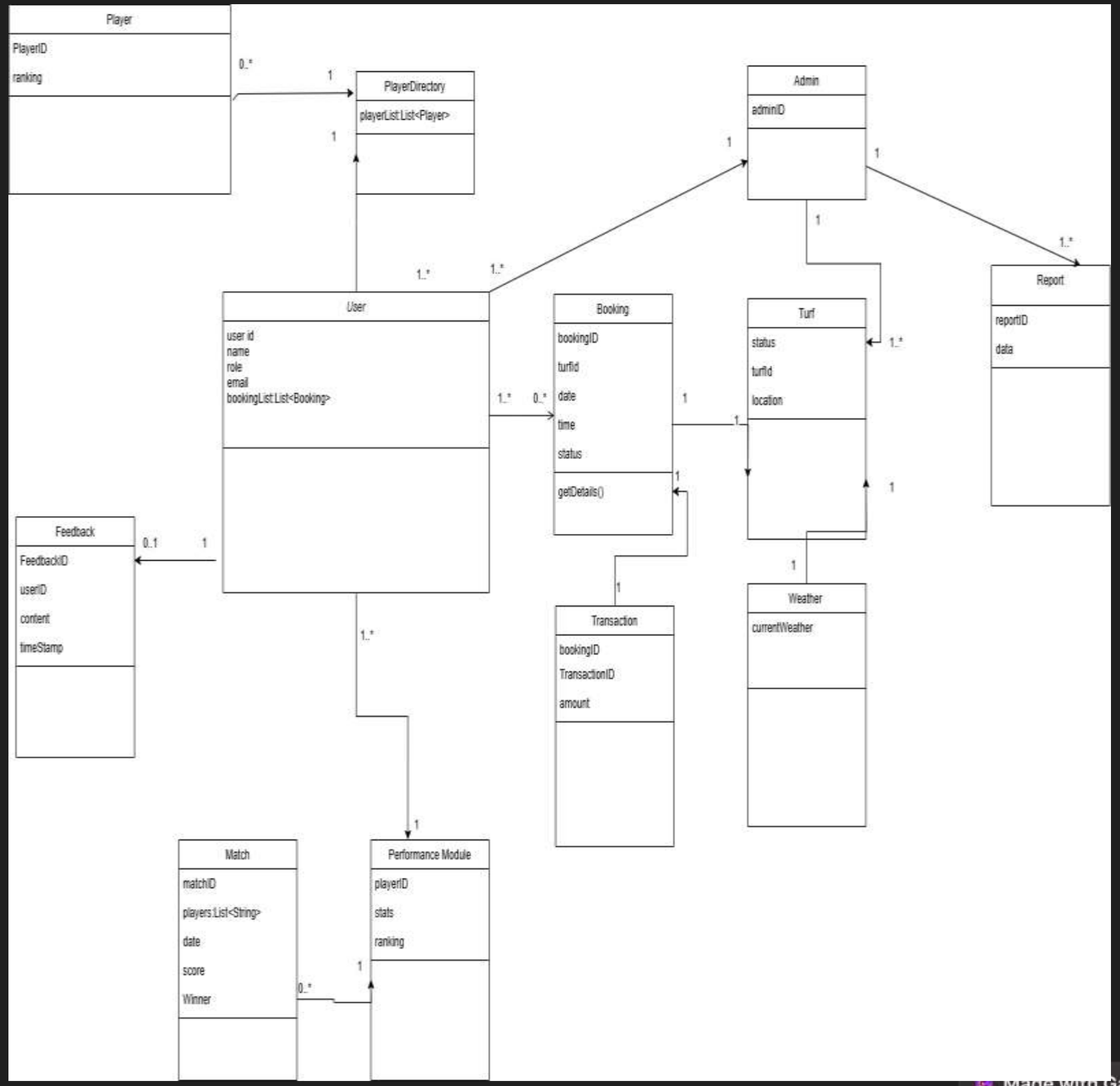
DOMAIN MODEL DIAGRAM



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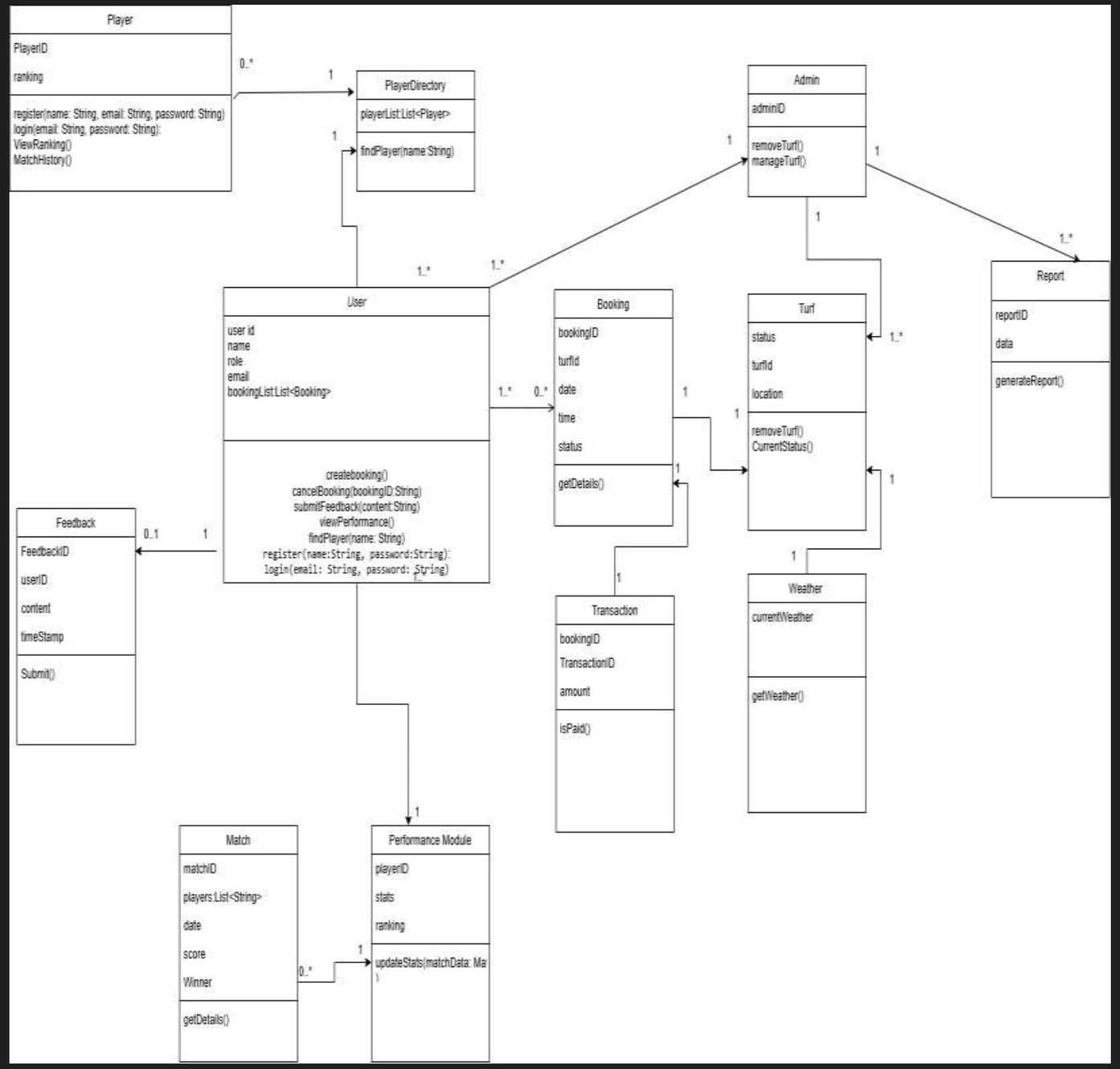
CLASS DIAGRAM



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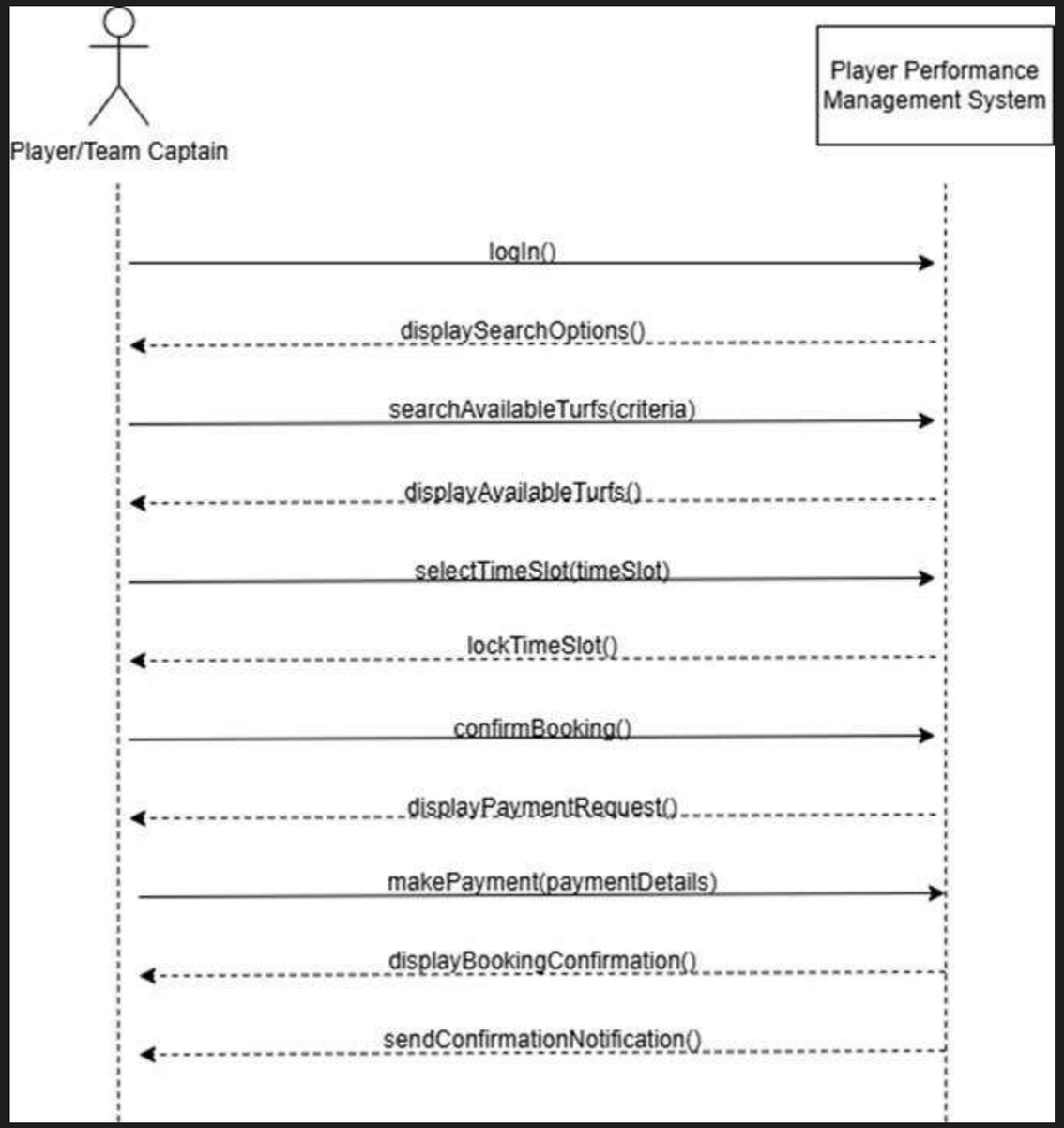
SYSTEM SEQUENCE DIAGRAM

BOOK TURF



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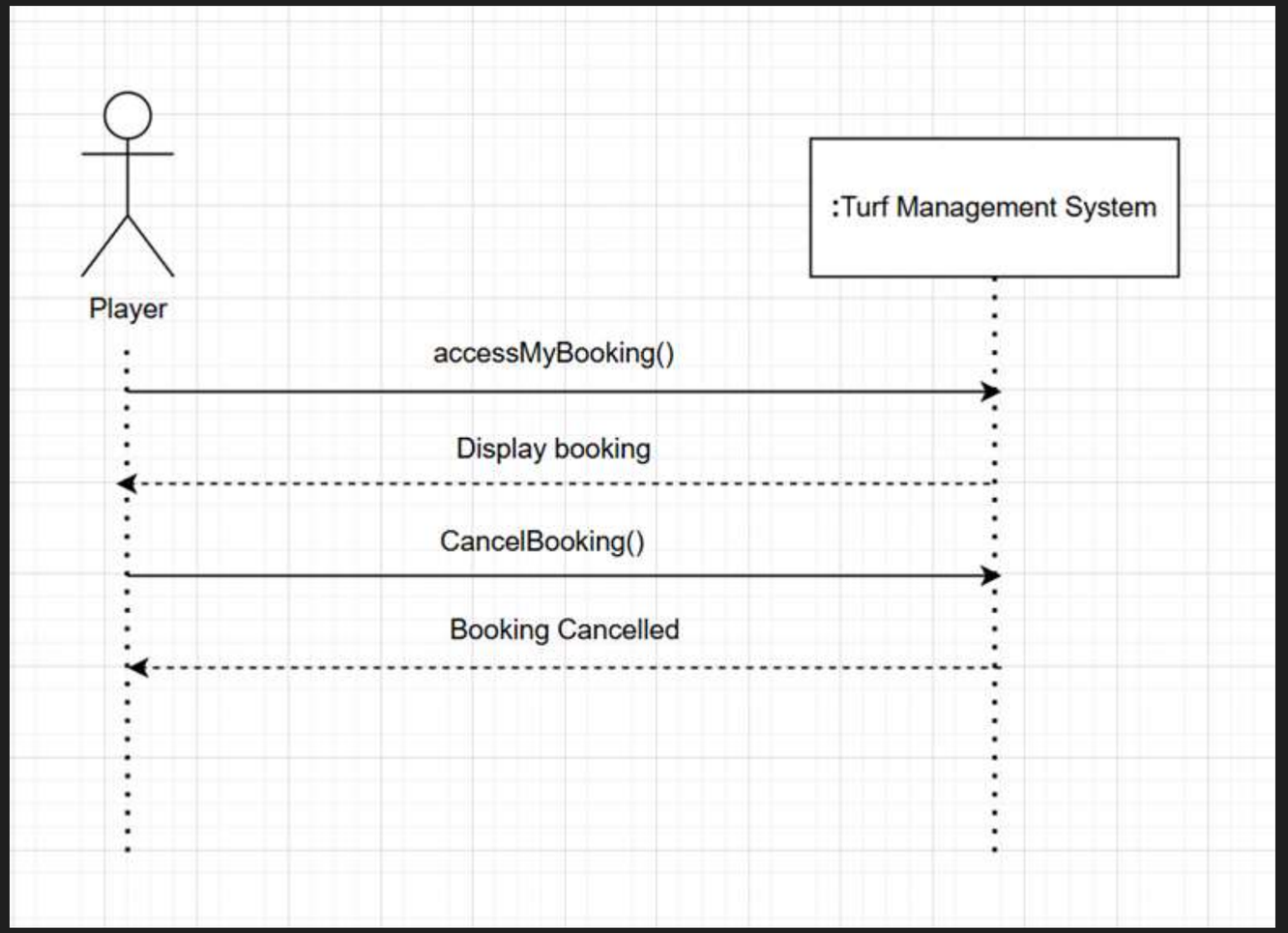
SYSTEM SEQUENCE DIAGRAM

CANCEL BOOKING



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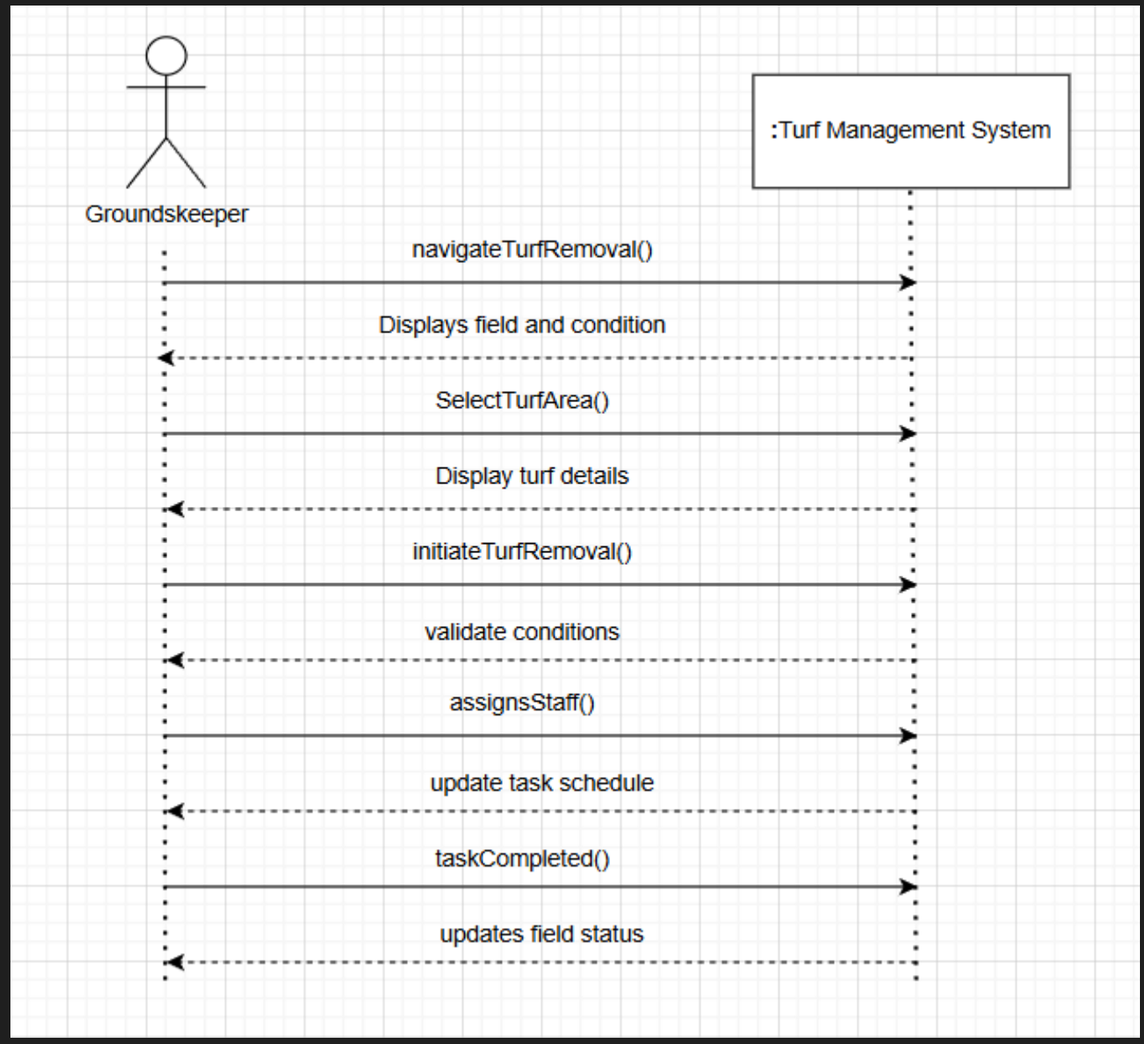
SYSTEM SEQUENCE DIAGRAM

TURF REMOVAL



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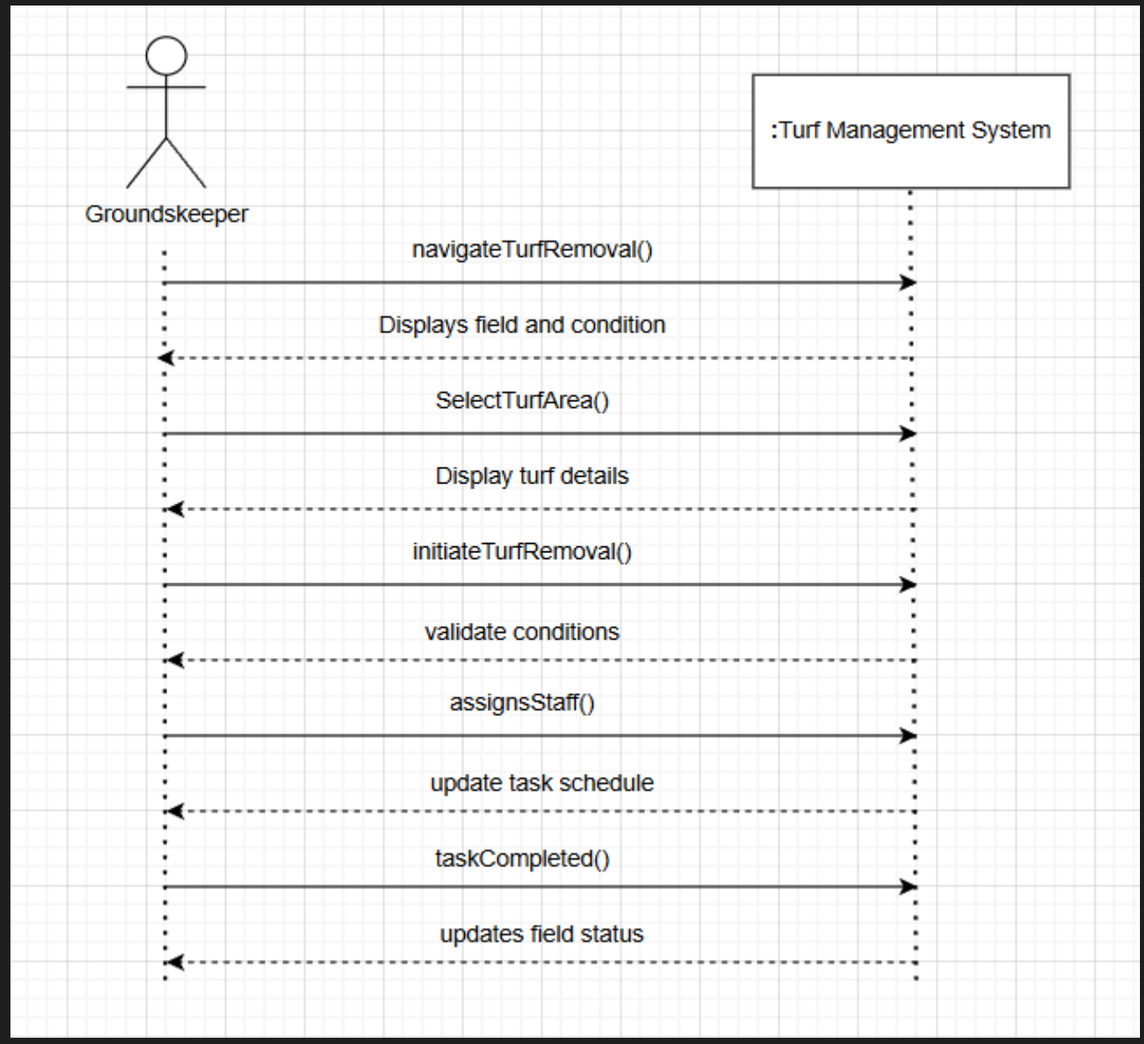
SYSTEM SEQUENCE DIAGRAM

UPLOAD TURF INFORMATION



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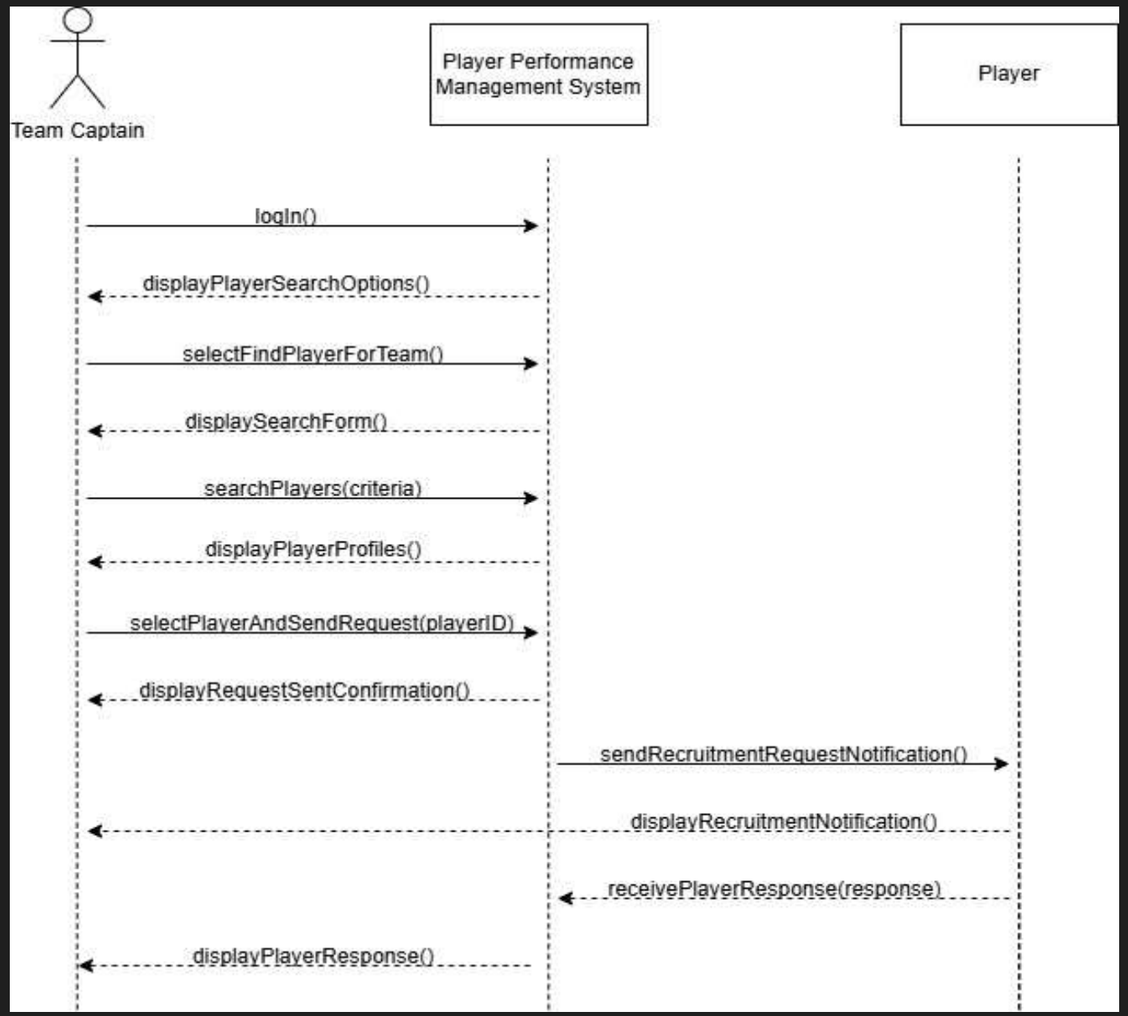
SYSTEM SEQUENCE DIAGRAM

FIND PLAYER



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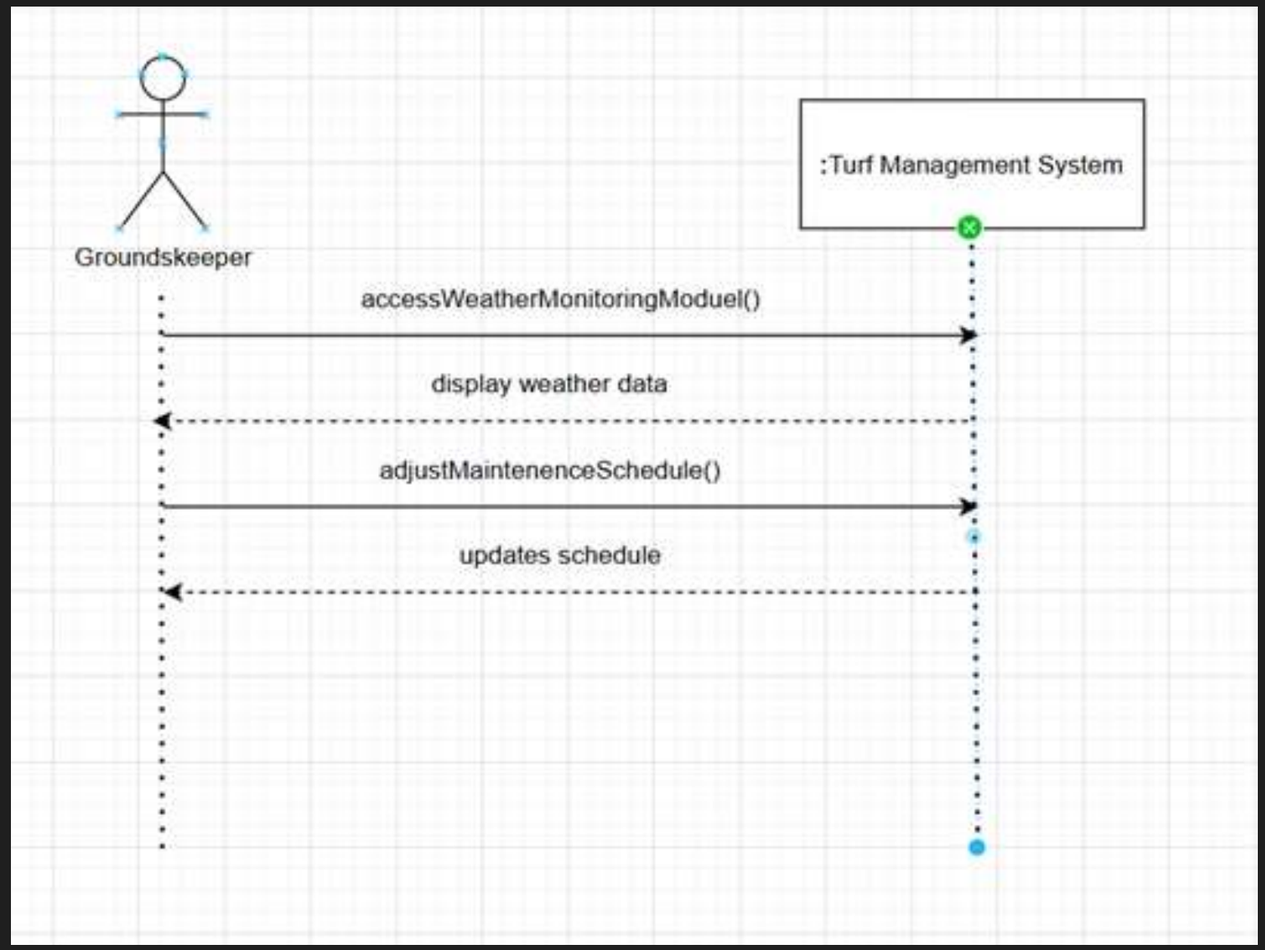
SYSTEM SEQUENCE DIAGRAM

WEATHER MONITORING



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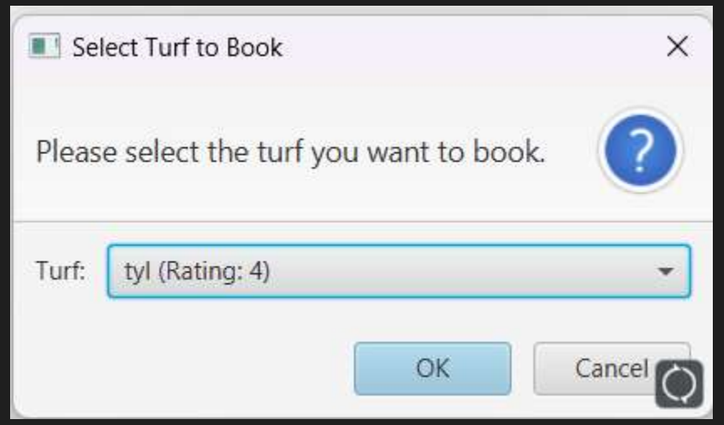
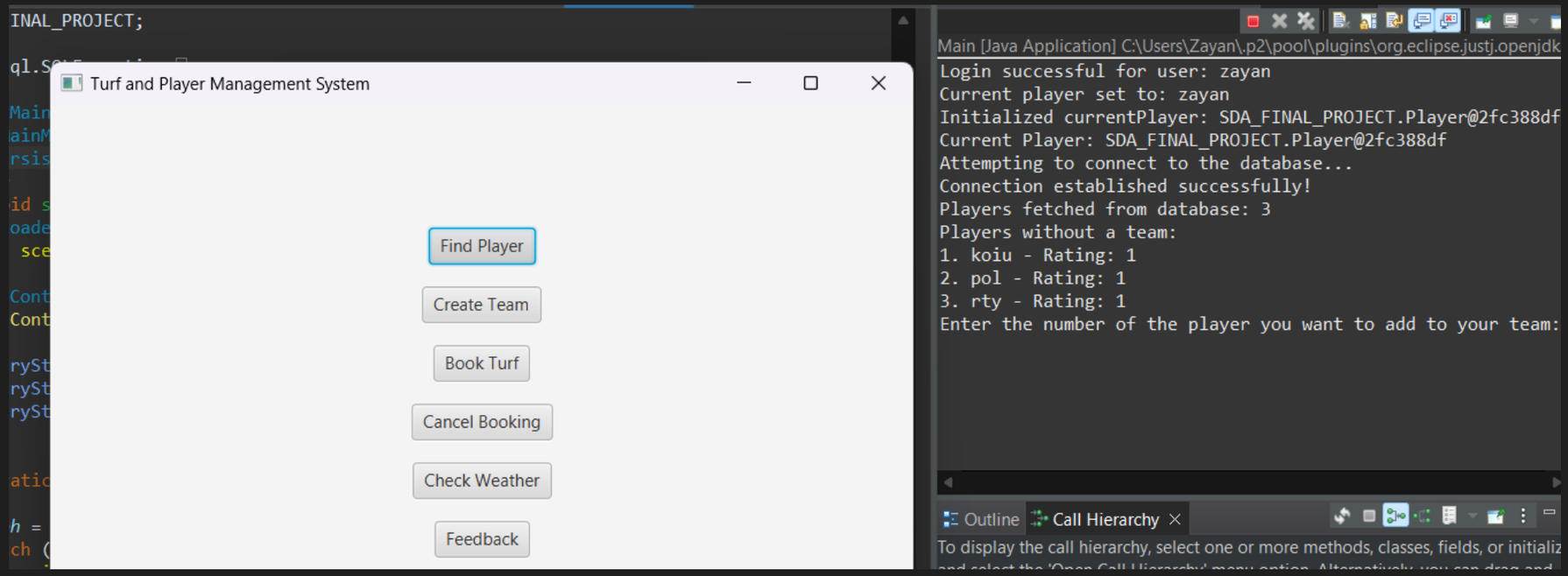
Book Turf



Find Players



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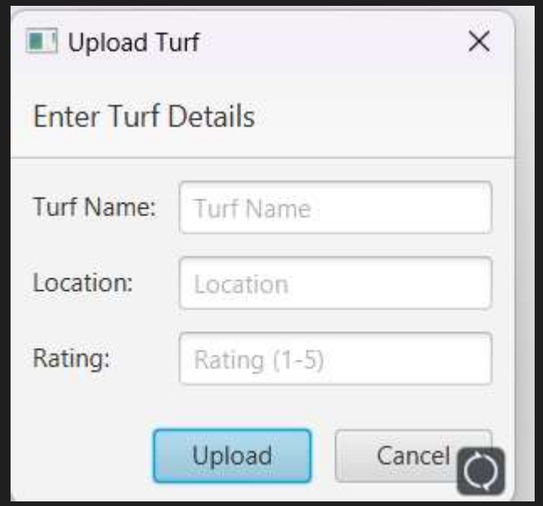
Turf Owner Features

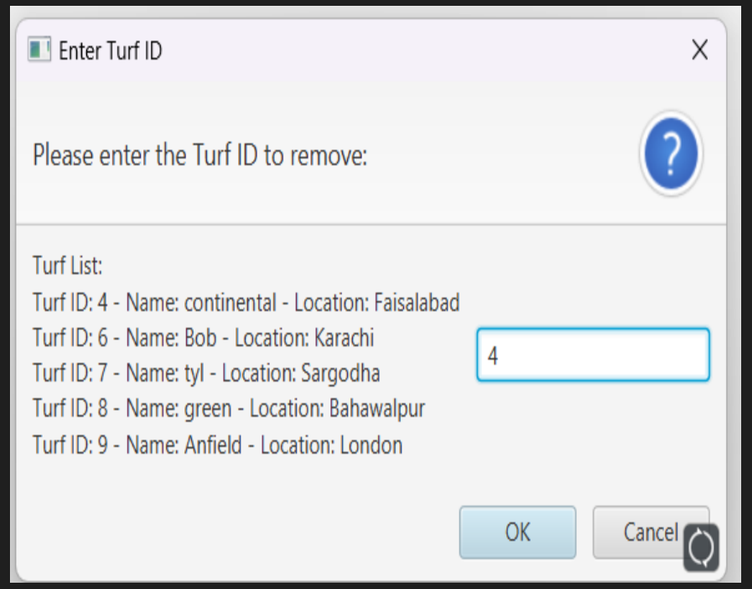
Add Turf

Turf owners can easily add their turf details to the platform, including location, pricing, and availability.



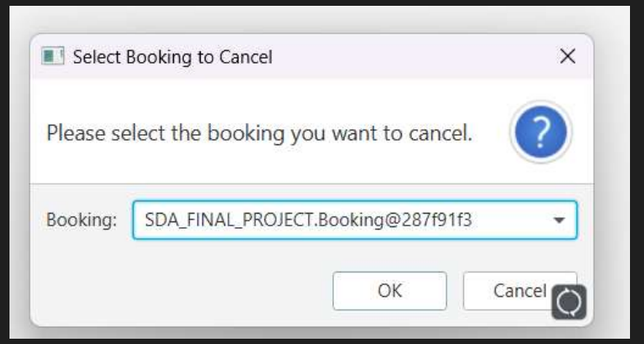
Remove Turf

Owners have the flexibility to remove their turf from the platform if needed.



Manage Bookings

Review and manage incoming bookings for their turf, ensuring smooth operations.



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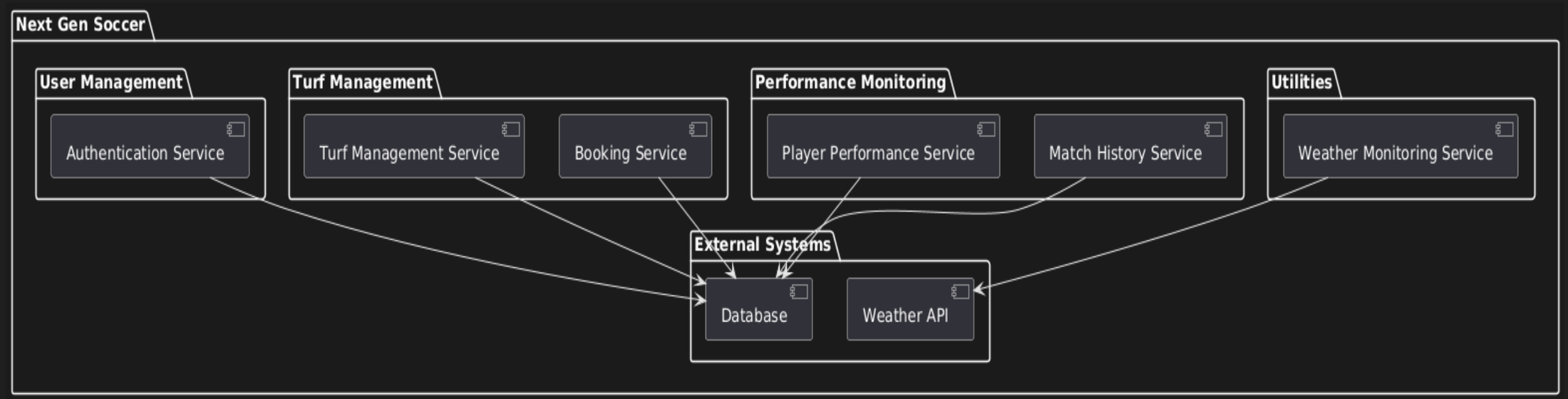
PACKAGE DIAGRAM



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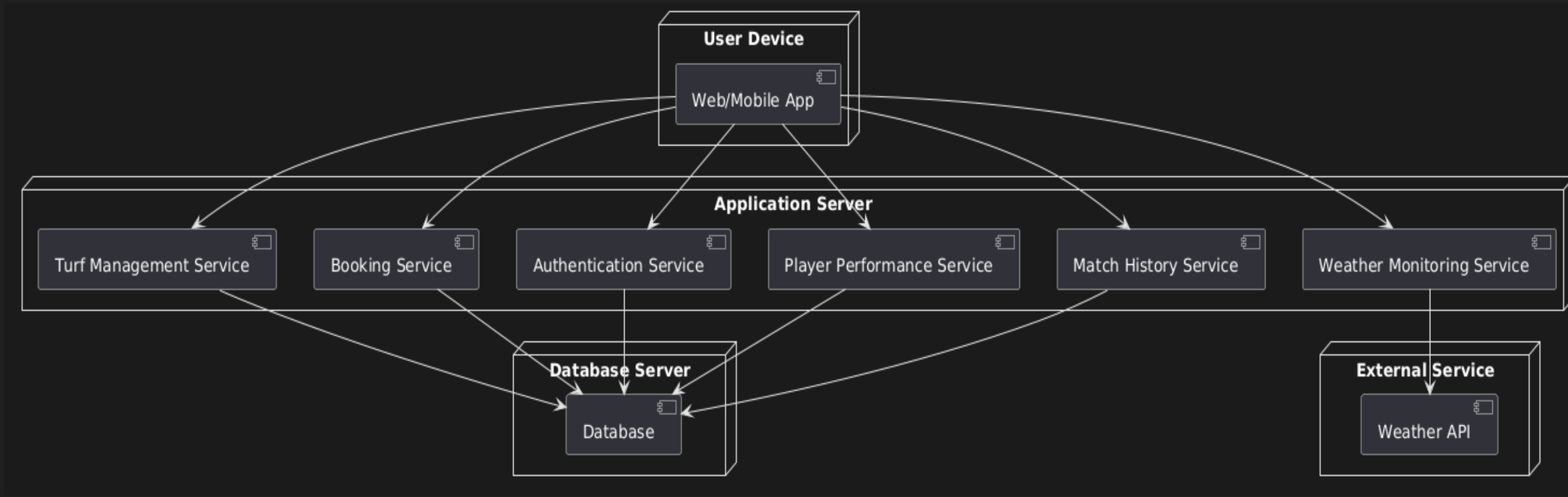
DEPLOYMENT DIAGRAM



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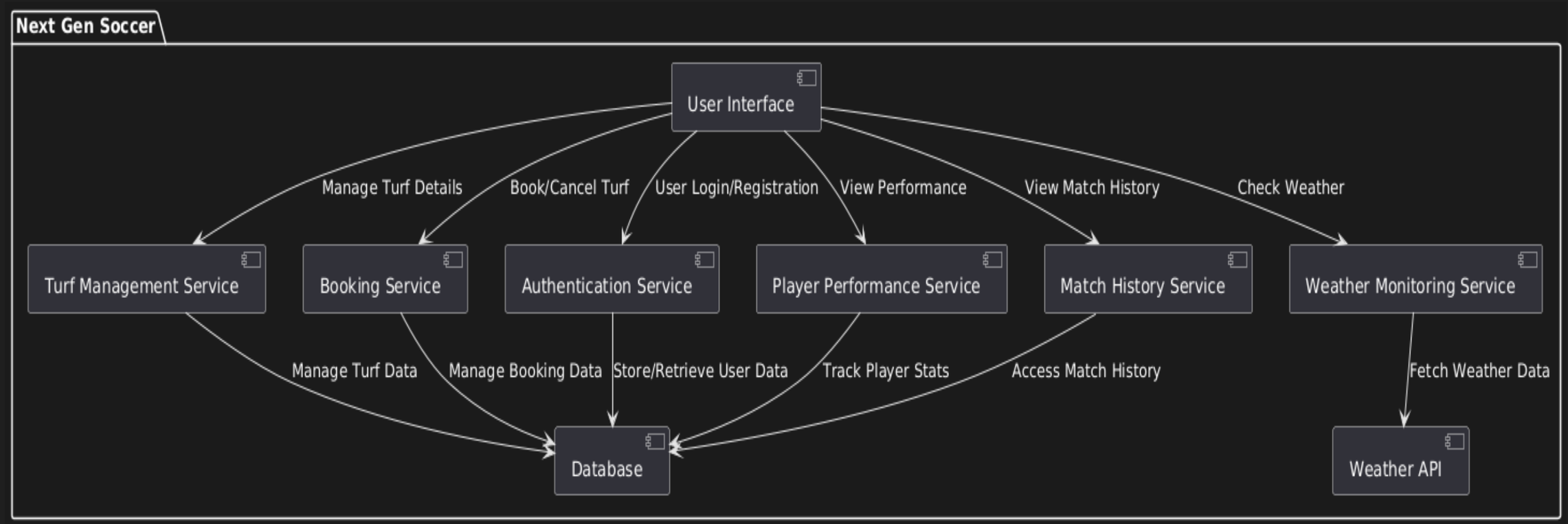
COMPONENT DIAGRAM



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Contributions

Muhammad Zayan 22I-1010	Business logic layer Linking front-end with back-end
Rohaan Khalid 22I-1034	Back-end development
Talha Khurram 22I-0790	Front-end development

Challenges Faced

1

User Interface Design

Creating a user-friendly interface that seamlessly integrates all functionalities.

2

Database Optimization

Ensuring efficient data management for smooth operation and scalability.

3

Weather API Integration

Implementing real-time weather data integration for accurate and reliable information.

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Conclusion

Streamlined Turf Booking

Provides a user-friendly platform for booking turf slots, finding players, and managing teams.

1

Efficient Turf Management

Simplifies operations for turf owners, enabling them to manage bookings, add, and remove turf listings.

2

Improved User Experience

Offers a comprehensive and intuitive experience for both turf users and owners, enhancing engagement.

3

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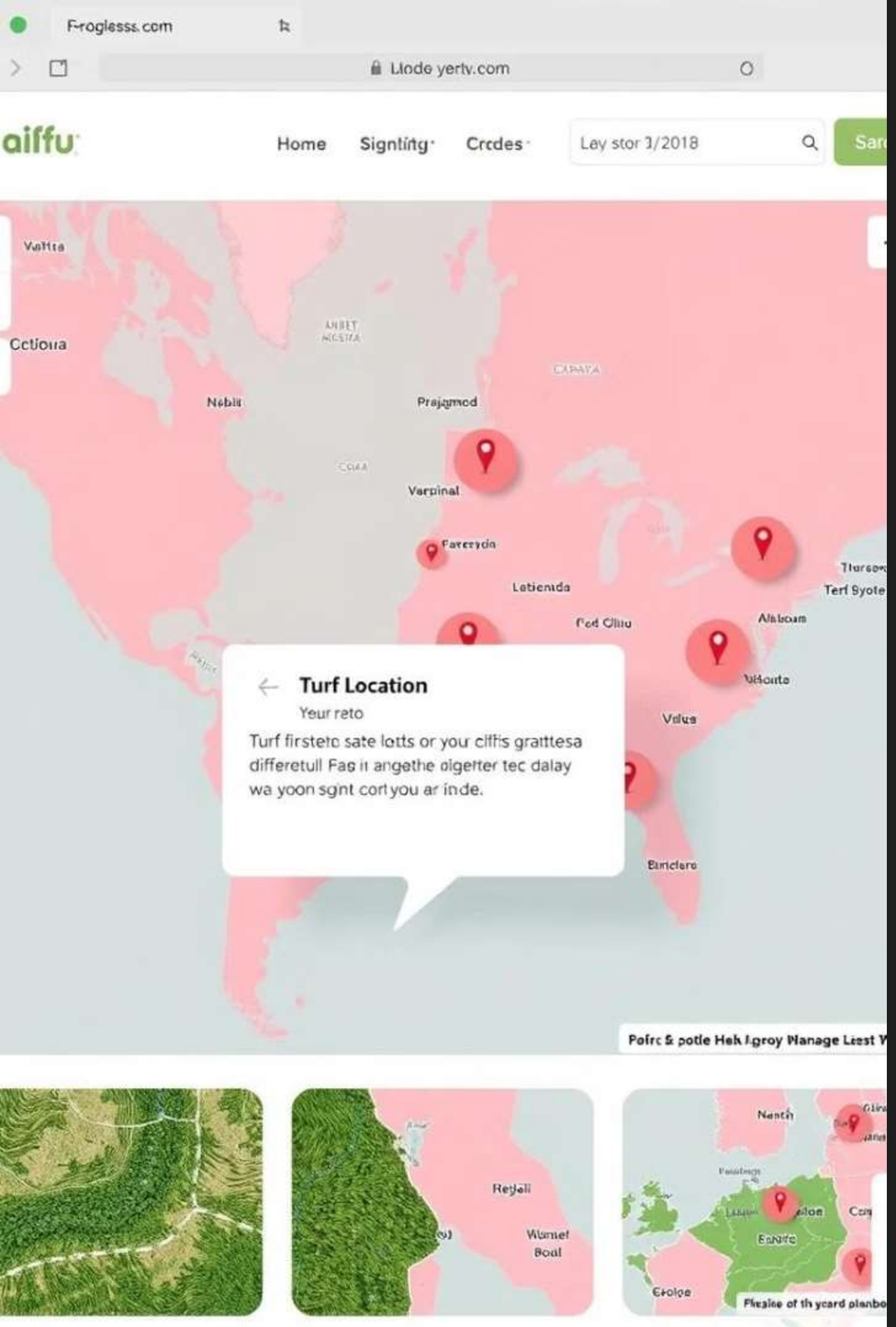

Future Plans

Turf Location Tracking

Implement real-time tracking of turf location and availability.

Integrated Payment System

Offer seamless online payment options for booking turf slots.

Social Integration

Enable social media integration for sharing team information and matches.

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