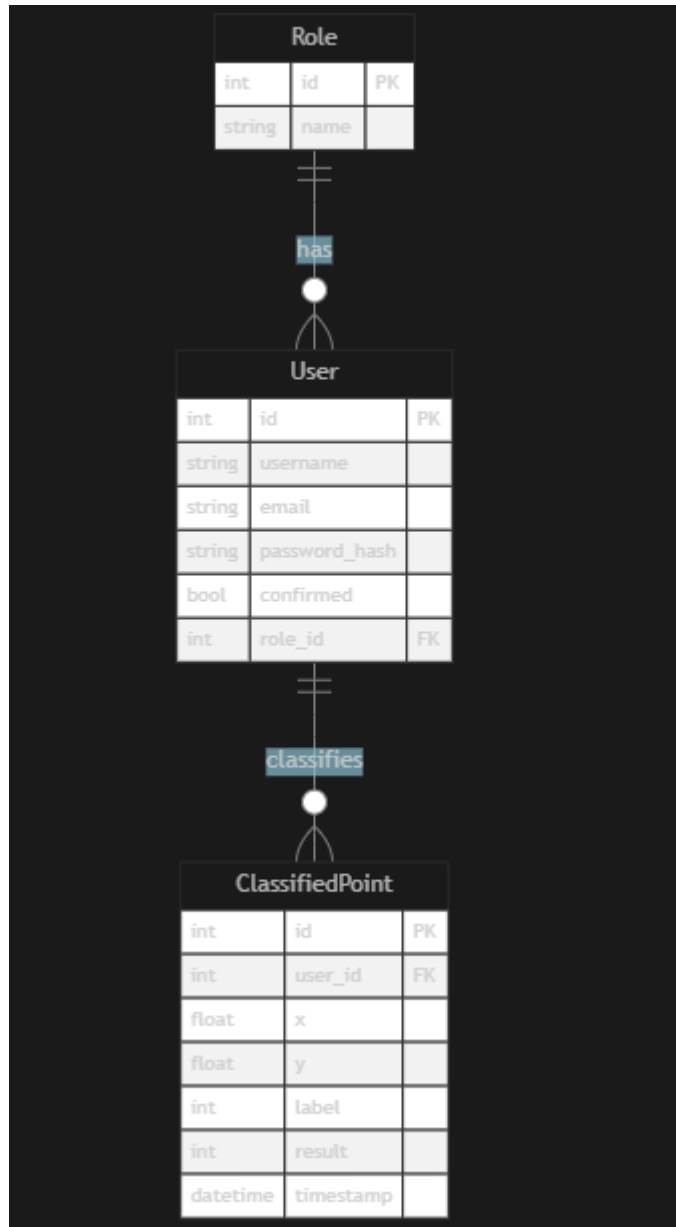
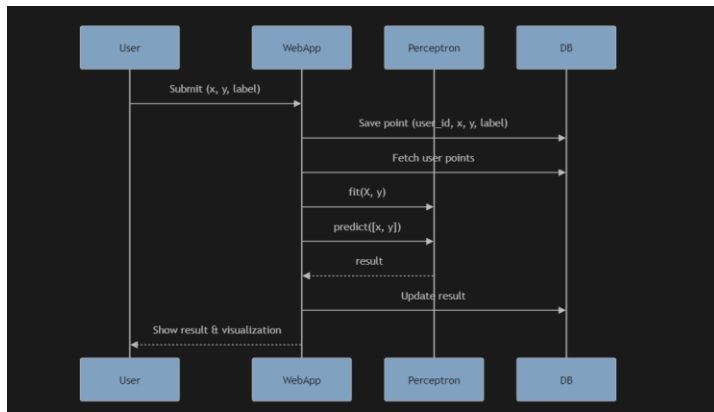


Final Report

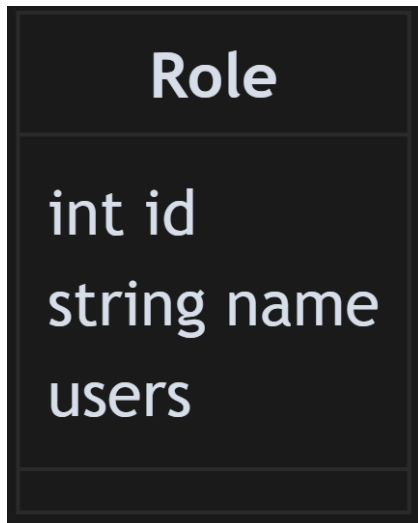
1.ERD Diagram



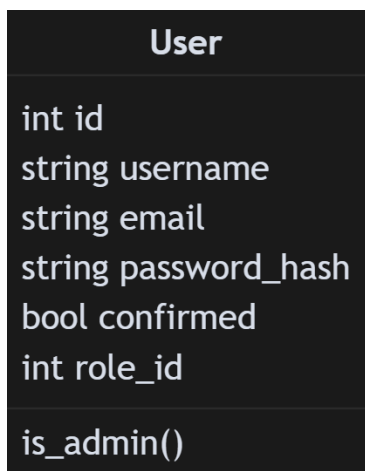
2. Sequence diagram



3. UML Class Diagram:Role

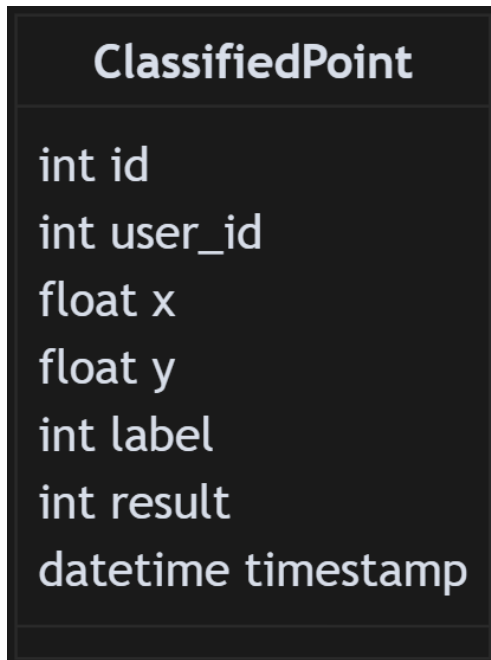


4.UML Class Diagram:User



5.UML Class

Diagram:ClassifiedPoint



6.Users stories

1. As a new user, I want to register and confirm my email so that I can access the app.
2. As a user, I want to log in and log out securely so that my data is protected.
3. As a user, I want to classify 2D points so that I can see how the AI works.
4. As a user, I want to view my classification history so that I can track my progress.
5. As a user, I want to visualize my classified points on a chart so that I can better understand the results.
6. As an admin, I want to view all users so that I can manage the platform.
7. As an admin, I want to edit or delete users so that I can maintain data integrity.
8. As a user, I want to edit my profile so that I can keep my information up to date.
9. As a user, I want to reset my password if I forget it so that I can regain access.
10. As an admin, I want to view all classification results so that I can monitor system usage.

7.Sprint logs

Week 1

- **Sprint Goal:** Set up project repository, initialize Flask app, and define initial database models.
- **Tasks Completed:**
 - Created GitHub repository and set up project structure

- Initialized Flask app with blueprints
 - Defined User, Role, and ClassifiedPoint models
 - **Tasks In Progress:**
 - Initial database migration scripts
 - **Tasks Planned for Next Week:**
 - Complete database migrations
 - Implement user registration and login
-

Week 2

- **Sprint Goal:** Implement user authentication and basic point classification functionality.
 - **Tasks Completed:**
 - User registration, login, and logout
 - Email confirmation for new users
 - Basic form for submitting 2D points
 - **Tasks In Progress:**
 - Integration of Perceptron AI module
 - **Tasks Planned for Next Week:**
 - Complete AI integration
 - Add user profile editing
 - Start work on admin dashboard
-

Week 3

- **Sprint Goal:** Finalize AI integration and implement admin dashboard.
- **Tasks Completed:**
 - Integrated Perceptron for point classification

- Visualized classified points on dashboard
- Admin dashboard with user management
- **Tasks In Progress:**
 - Error handling and custom error pages
- **Tasks Planned for Next Week:**
 - Polish UI with Bootstrap
 - Write documentation and user stories
 - Prepare diagrams for final report
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