Product Backlog

Story 1.1:

Hero Section

As a new user, I want to see a visually appealing hero section with a welcoming message and tagline, so that I feel invited to explore the platform.

User Story 1.2:

Dynamic Navbar Integration

 As a user, I want a dynamic navbar to easily navigate between different sections of the website, so I can access all features seamlessly.

User Story 1.3:

About Us Section

  As a user, I want to learn about the team and the purpose of the website, so I can understand the context of the project.

User Story 1.4:

Our Future Projects Section

  As a user, I want to see the team's future plans and goals, so I can understand their direction.

User Story 1.5:

What We Do Section

  As a user, I want to learn about the team's services or expertise, so I can assess their value.

User Story 1.6:

 Testimonials Section

As a user, I want to read testimonials to understand the experiences of others with the team, so I can trust their credibility.

User Story 1.7:

 Contact Us Section

As a user, I want an easy way to communicate with the team, so I can send queries or feedback.

User Story 2.1:

Form Layout and Front-End User Interface

As a user, I want a well-designed registration form with front-end validation so that I can easily register and provide valid information to access the platform.

User Story 2.2: Backend Setup for User Registration and Security

As a developer, I want to set up the backend for secure user registration and authentication so that user data is safely stored and can be verified for platform access.

User Story 2.3: Fetch and Display Error Notifications and User Feedback

As a user, I want to be notified about any mistakes in the form so that I can quickly correct any issues and proceed without frustration..

User Story 3.1

As a user, I want to filter the map data by region or type, so I can focus on specific information.

User Story 3.2 *: As a developer, I want to set up the database connection and prepare the necessary data files so that the map can retrieve and display the required data.*

User Story 3.3: Map Interactivity and Data Display
As a user, I want the map to update dynamically based on my selected filters and display detailed information when I interact with elements on the map.

User Story 4.1:
As a user, I want to filter the dam data by year, city, and water quality, so I can view specific and relevant information.

User Story 4.2:
As a user, I want to view key metrics (total dams, total capacity, etc.) in a visually appealing format, so I can quickly grasp critical insights.

User Story 4.3:
 As a user, I want to explore dam-related visualizations (bar charts, scatter plots, pie charts), so I can analyze trends and distributions.

User Story 4.4:
 As a user, I want a clean and professional dashboard layout, so I can easily navigate and focus on the data insights.

sprint 1	sprint 2	sprint 3	sprint 4
1.1 - 1.2	1.3-1.4	1.5-1.6	1.7
2.1	2.2-2.3	3.2	3.3
3.1	4.1-4.2	4.3	4.4

time spent:
sprint 1 15h
sprint 2   24h
sprint 3 48h
sprint 4   120h