### WBS structure for **Disc Golf Web Application** project:

### **Top-Level Project**:

1. **Disc Golf Web Application**

### **Phase 1: Planning**

* 1.1. Define project scope
* 1.2. Set up GitHub and repository
* 1.3. Assign roles and responsibilities
* 1.4. Set project milestones

### **Phase 2: Design**

* 2.1. **UI/UX Design**
  + 2.1.1. Design User Interface for registration
  + 2.1.2. Design UI for profile creation and editing
  + 2.1.3. Design UI for event calendar
  + 2.1.4. Design UI for feedback system
* 2.2. **System Architecture**
  + 2.2.1. Define the tech stack (React, Express, MySQL)
  + 2.2.2. Design API structure
  + 2.2.3. Design database schema

### **Phase 3: Development**

* 3.1. **Frontend Development**
  + 3.1.1. Implement User Registration UI
  + 3.1.2. Implement Profile Creation UI
  + 3.1.3. Implement Event Calendar UI
  + 3.1.4. Implement Feedback UI
* 3.2. **Backend Development**
  + 3.2.1. Implement User Authentication (Login/Registration)
  + 3.2.2. Implement Event API (CRUD operations for events)
  + 3.2.3. Implement Feedback API
  + 3.2.4. Set up Database (Users, Events, Feedback)
* 3.3. **Integration**
  + 3.3.1. Integrate Frontend with Backend
  + 3.3.2. Integrate Map API (OpenLayers)
  + 3.3.3. Implement Multilingual Support (react-i18next)

### **Phase 4: Testing**

* 4.1. Unit Testing
  + 4.1.1. Test user authentication and registration
  + 4.1.2. Test event CRUD functionality
  + 4.1.3. Test feedback submission and display
* 4.2. Integration Testing
  + 4.2.1. Test frontend-backend integration
  + 4.2.2. Test weather integration
  + 4.2.3. Test notification system
* 4.3. User Acceptance Testing (UAT)
  + 4.3.1. Conduct user testing
  + 4.3.2. Collect feedback and fix bugs

### **Phase 5: Deployment**

* 5.1. Prepare for launch
  + 5.1.1. Setup production server
  + 5.1.2. Deploy web app to server
  + 5.1.3. Set up domain and SSL
* 5.2. Post-launch activities
  + 5.2.1. Monitor server performance
  + 5.2.2. Collect user feedback for improvements

### **Phase 6: Maintenance**

* 6.1. Bug Fixing
  + 6.1.1. Fix minor bugs and glitches
* 6.2. Feature Enhancements
  + 6.2.1. Add new features based on user feedback

A diagram of a network with Arctic Ocean in the background

Description automatically generated