

Individual Contribution Report

CMPE 321 – Database Systems

Project 3: Chess Tournament Database

1. Personal Information

- **Name:** Ali Ayhan Günder
- **Student ID:** 2021400219
- **Group Number:** 6

2. Tasks & Contributions

- **Front-end Development:**
 - Designed and implemented all HTML pages with using Flask templates, focusing on responsive layouts, form styling, navigation bars, and data tables.
 - Applied consistent HTML conventions across user, coach, and admin views.
- **Report Template:**
 - Created the LaTeX template for the final schema & constraints report, structuring sections and tables for easy compilation.
- **SQL Triggers Collaboration:**
 - Wrote and tested triggers (`prevent_conflicting_match`, `prevent_arbiter_conflict`, `prevent_same_team_match`, `prevent_invalid_rating`) to enforce business rules.
 - Reviewed and refined trigger logic to handle edge cases.
- **Debugging & Testing:**
 - Performed end to end testing of user, admin, and coach workflows via the frontend interface, verifying form submissions, data retrieval, and permissions.
 - Identified and fixed integration issues between HTML forms and Flask backend validations.

3. Collaboration & Challenges

- **Tools & Workflow:**

- Held real-time discussions via Google Meet.
- Shared code snippets and updates over WhatsApp.

- **Division of Labor:**

- I focused on frontend HTML and report templating; Bora concentrated on SQL schema, queries, and triggers.

- **Scheduling Conflicts:**

- Coordinated weekend meetings due to differing academic workloads (I'm a third-year; Bora is fourth-year).
- Provided asynchronous updates when live meetings weren't possible.

4. Self-Assessment

- **Strengths Gained:**

- Enhanced proficiency in Flask front-end templating and responsive design.
- Deepened understanding of SQL procedural logic via triggers.
- Improved debugging workflow to ensure UI/back-end integration.

- **Areas for Improvement:**

- Better early stage planning to reduce scheduling issues.