

# DBMS 2 Project

## Group 9 : Weekly Report

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### Week 1 [Mar 3 - Mar 7]

- Database design: Discussed the requirements for the project and decided tables, schema, and relationships.
- ER diagram: Created rough ER diagram for the database, need to refine it further.
- Technology stack: Decided to use Django as the backend framework, PostgreSQL as the database, and templates (HTML, CSS, JS) from django for the frontend.
- Setup: Installed Django and configure Django with virtual environemnt. Installed PostgreSQL, and pgAdmin on our local machines.
- Repository: Created a repository on GitHub do the initial setup and push the code.

### Week 2 [Mar 17 - Mar 21]

- Finalized the relations and schema for the database. Noted the functional dependencies and constraints.
- Database setup: Created the database and tables in PostgreSQL. Inserted some dummy data to test the API.
- Backend setup: Created the Django project and app. Created the models for the database tables. Created the API for the database.
- RBAC: Implemented Role Based Access Control for the API. Created roles for admin, user, and guest.
- Authentication: Implemented authentication for the API. Created login, signup, and logout API.
- Querying: Implemented querying for the API. Created add, edit, delete, and get API for the database.

### Week 3 [Mar 24 - Mar 28]

- Frontend setup: Created the templates for the frontend. Created the login, signup, home, profile, search, add, edit, delete, logout, and about pages.
- Integration: Connected the frontend to the backend. Tested the API with the frontend.
- Filtering: Implemented filtering for the API. Created search API for the database.
- Testing: Tested the application for bugs and errors. Fixed the some critical bugs and errors.
- Documentation: Wrote the documentation for the project.
- Iterated the design: Refactored the code and design for better performance and user experience.