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**Group D: The Codefathers**

**DVD Rental System**

**Week 1:**

1st group meeting. Assigning roles, discussing wished projects to take. Arrange about meetings time. Group name & logo discussed. Wrote down contact details of each team member: e-mail and phone.

**Week 2:**

Group continues to discuss topics that should be chosen. Finally we have chosen between three projects: DVD Rental, E-Voting and Hotel Management. Number 1 choice is DVD Rental. Preparing the slides and presentation.

**Week 3:**

Group is assigned for DVD Rental system project. Main goal of the week is system analysis and research. How the software should be organized. Possible extra-features: web-app + desktop application. Start preparing for the presentation on week 4. ERD diagram is my responsibility.

**Week 4:**

Review each member’s work. Discussed possibly useful technologies: WAMP/XAMP, JUnit, MySQL, GitHub etc. ERD diagram is revised. Finishing slides and putting them together for the presentation. Missed the presentation because was sick this day.

**Week 5:**

Discussed user login and privileges: how to login to Customer and Manager. Redoing the ERD diagram. Divided team members between two groups: Dennis and Paul are dealing with design(GUI), Sean and I are working with database. Start researching MySql.

**Week 6:**

Sean is dealing with connection MySQL to Java. I’m developing the actual database: creating, populating etc. Using MySQL console. MySQL is not so different to Oracle SQL so it seems to be easy.

Some problems with syntax appeared.

**Week 7:**

Finished the design of the database. Still thinking how to improve it.

Discussed need in Employee table. Keeping Customers’ username and password in the database is unsecure. To prevent our database from this breach we need to add encryption, but if we do it, problems with login appear.

Need to find a different way to create employees.

Found out MySQL feature to add a new Customer without Employee table: ‘CREATE USER ‘username’@’localhost’ IDENTIFIED BY ‘password’’ or ‘GRANT PRIVILEGES ON \*.\* TO ‘user’@’localhost’’. Need to show this to Sean.

Presentation is on Friday. Need to prepare.

**Week 8:**

Need to refine SQL code(queries in particular). Also triggers and constraints should be done. Need to write down privileges of each role(manager and employee).

Faced problems with GitHub: cannot upload my work.

**Week 9:**

Faced the problem with login to MySQL console or using WAMP server: ‘Access denied for user ‘root’@’localhost’. Cannot access the database from my machine. Changed configuration file in WAMP directory – still no success.

Reinstalled MySQL console. Works fine.

Working on other assignments.

Testing and revising the database. Trying to figure out what to improve: triggers, tables etc.

**Week 10:**

Faced the problem described in week 9 again.

Problem with login to MySql is fixed – seems like the problem were the services. Doesn’t know exactly how, but I’m done with it. And it seems like it won’t happen anymore.

Changed some trigger due to errors like ‘There is **no NEW** row in on **DELETE trigger’**. Fixing it.

Start research for JUnit testing.

**Week 11:**

Fixing bugs in GUI and Model classes: In some methods username and password were swapped, so entered username become password and entered password is recognized as a username. Some minor, may be unnoticeable bugs are fixed.

Still dealing with JUnit testing. It’s more tricky than I expected.

Little bit changed GUI: swapped some buttons etc so it looks more nice.

Sean faced some problems with login. Helped him.

Added extra functionality: reservation, button for Manual etc.

Found a lot of bugs. But now everything works fine.

**Week 12:**

I gave up JUnit testing. Too late to test and fix the code.

Continue fixing the bugs.

Need to finish the personal log. Also the final version of our application will be checked if more bugs appear.

From Tuesday start preparation for the Friday’s presentation.