Course Project

Introduction to Database Management

CS348 Spring 2020

Announcements

- Project details are posted on Learn
  - Group of size 4-5
- Reading materials
  - DB2atUW-Tutorial
  - ProjectNote-DB2
  - ProjectNote-GCP (Google Cloud Platform)
  - ProjectNote-JDBC-DB2
- Database.zip
- codesample.zip

Outline

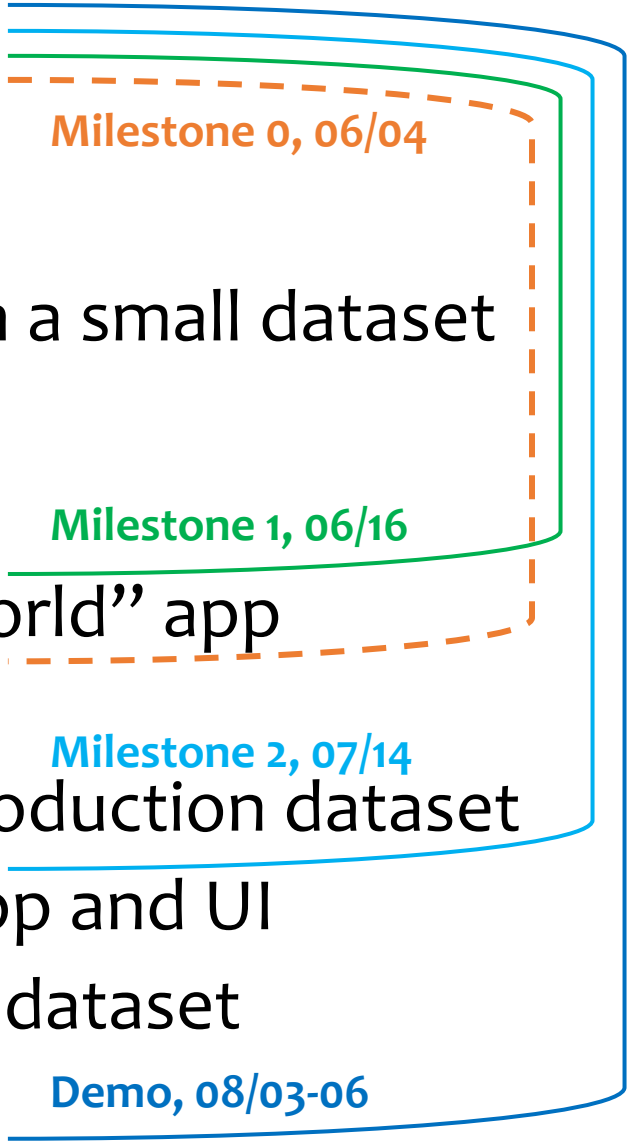
- Project Details
  - Admin: important dates, grading, teamwork, platform
  - Task overviews and milestones
- Project sample codes
  - JDBC and DB2 on school servers
  - PHP and MySQL on GPC

Platform

- DB2 on student.cs.uwaterloo.ca
- MySQL on cloud-based platforms
- Other platforms work too!

Task Overview

1. Pick an application
2. Design the database schema
3. Create sample database with a small dataset
4. Design a user-interface(UI)
5. Write SQL queries (for UI)
6. Choose a platform, ``hello world'' app
7. Prepare production dataset
8. Test SQL from task 5 over production dataset
9. Implement and debug the app and UI
10. Test your app on production dataset
11. Polish UI



Submission – Milestone 0

- Due by Thur, June 04, 11pm
- Member.txt
  - Names
  - Effort and progress made by the member
- Report.pdf
  - Brief description of the application: e.g. user, dataset
  - Choice of platform and user interface
- Code.zip
  - README.txt: how to load your sample code to your db on your platform
  - Source code for your hello world type of app

Submission – Milestone 1

- Due by Tue, June 16, 11pm
- Member.txt
  - Names
  - Effort and progress made by the member to date
- Report.pdf
  - Brief description of the application: e.g. user, dataset
  - Plan to populate the database
  - Database schema: assumptions, E/R diagram, keys
  - Description of user interface
- Code.zip
  - README.txt: how to load your sample code to your db on your platform
  - File containing the SQL code
  - Testsample.sql and testsample.out(for task 5)
  - Complete a simple but working app (1-2 simple tasks)
  - Code for obtaining real data, if applicable (for task 7)

Submission – Milestone 2

- Due by Tue, July 14, 11pm
- Member.txt
  - Names
  - Effort and progress made by the member since last milestone
- Report.pdf (highlight new/changes)
  - Description of the application: e.g. user, dataset
  - Plan to populate the database
  - Database schema: assumptions, E/R diagram, keys
  - Description of user interface
  - Features for performance, e.g. indexes
- Code.zip
  - README.txt: how to load your production code to your db on your platform, how to get production dataset
  - File containing the SQL code for production
  - Testproduction.sql and testproduction.out(for task 5)
  - Complete a simple but working app(1-2 more tasks)
  - Code for obtaining real data, if applicable (for task 7)

Submission – Final report & code

- Due by demo (August 03-06), updatable until Thur August 06.
- Member.txt
  - Names
  - Effort and progress made by the member since last milestone
- Report.pdf (All the details)
  - Description of the application: e.g. user, dataset
  - Plan to populate the database
  - Database schema: assumptions, E/R diagram, keys
  - Description of user interface
  - Features for performance, e.g. indexes
- Code.zip (All the code)
  - README.txt: how to load your production code to your db on your platform, how to get production dataset
  - File containing the SQL code for production
  - Testproduction.sql and testproduction.out(for task 5)
  - Complete a simple but working app(1-2 more tasks)
  - Code for obtaining real data, if applicable (for task 7)