

Mini-Rosetta Project Plan  
(programming assignments for the remainder of the semester)

Required: Form a two man team.

- When you choose a partner, please send me and the T.A. an email per the pairing.

The following is an outline of the project schedule.

Milestone 1 – Initial software install

- Install Postgres
- Create a database instance of a database defined with Rose
- Get comfortable with interactive Postgres interfaces.

Milestone 2 – Interfacing databases with Java, (JDBC interfaces)

- Bulk load a the database from a FASTA file(s)
- Integrate the Smith-Waterman alignment code, and compute matches.

Milestone 3 – Do the Mini-Rosetta analysis

- Compute rosetta relations

Milestone 4 – Data federation & analysis

- Load gene/protein function from GO
- Assign putative functions per analysis
- Evaluate the quality of the results.

Milestone 5 – Web interfaces

- Install Tomcat  
Develop web forms for querying the Mini-rosetta database

Expected Schedule	
Milestone 1	April 11
Milestone 2	April 14
Milestone 3	April 20
Milestone 4	April 26
Milestone 5	May 2