- 1. Create new derby database called *OzFlora* with username and password *fit5042*.
- 2. Clean and build all 4 projects.
- 3. Deploy the enterprise application (do not run, just deploy) to Glassfish server 4.1.1.
- 4. Once tables are created, run the *InsertDefaultData.sql* script to load default plants data.
- 5. Create a new admin user by running the *CreateAdmin.sql* script. This will create an admin user with email *admin@example.com* and password *Fit5042*.
- 6. Open Glassfish server admin console.
- 7. Under Configurations > server-config > Security > Realms, create a new jdbc realm with the following settings:

| Realm Name: jdbc-realm | |
|--|--|
| Class Name: com.sun.enterprise.s | security.auth.realm.jdbc.JDBCRealm |
| Properties specific to this Class | |
| JAAS Context: * | jdbcRealm |
| | Identifier for the login module to use for this realm |
| JNDI: * | jdbc/0zFlora |
| | JNDI name of the JDBC resource used by this realm |
| User Table: * | users |
| | Name of the database table that contains the list of authorized users for this realm |
| User Name Column: * | email |
| | Name of the column in the user table that contains the list of user names |
| Password Column: * | password |
| | Name of the column in the user table that contains the user passwords |
| Group Table: * | user_groups |
| | Name of the database table that contains the list of groups for this realm |
| Group Table User Name Column: | email |
| | Name of the column in the user group table that contains the list of groups for this realm |
| Group Name Column: * | groupname |
| | Name of the column in the group table that contains the list of group names |
| Password Encryption Algorithm: * | none |
| | This denotes the algorithm for encrypting the passwords in the database. It is a security risk to leave this field empty. |
| Assign Groups: | |
| | Comma-separated list of group names |
| Database User: | |
| | Specify the database user name in the realm instead of the JDBC connection pool |
| Database Password: | |
| | Specify the database password in the realm instead of the JDBC connection pool |
| Digest Algorithm: | SHA-256 |
| | Digest algorithm (default is SHA-256); note that the default was MD5 in GlassFish versions prior to 3.1 |
| Encoding: | Base64 |
| NOTIFICATION OF THE STATE OF TH | Encoding (allowed values are Hex and Base64) |
| Charset: | operation of the control of the cont |
| | t |

8. Once the realm is saved, it should be possible to start the enterprise application with user login and registration.