

Advanced Internet Technologies

Lab Sessions

Lab Exercise 10

- Postgres
 - Install Postgres
 - Download and install GUI client, e.g.,
 - PG Admin 4
 - Run the Postgres and open the GUIs

Lab Exercise 10

- Postgres
 - create a database called AIT with a single entity (table) called users.
 - Table “users” should have 3 attributes (columns)
 - ID
 - Name
 - Lastname
 - Using the GUI, populate the tables with 3 or 4 records (tuples)

Lab Exercise 11

- Servlets for DB Management
 - Download JDBC driver <http://jdbc.postgresql.org/>
 - Add the JAR of the JDBC into the tomcat/lib folder
 - Start Eclipse and create a new Dynamic Web Project
 - Add the JDBC into the library of the project
 - Create a new Servlet and create a connection object to your Postgres database
 - Hint:

```
String dbname = "jdbc:postgresql://localhost:5432/ait";  
String driver = "org.postgresql.Driver";  
Class.forName(driver);  
Connection con = DriverManager.getConnection(dbname, user, password);
```

Lab Exercise 11

- Servlets for DB Management
 - Query the database using your object
 - Hint:

```
Statement statement = con.createStatement();  
String sql = "select * from login";  
ResultSet rs = statement.executeQuery(sql);  
while (rs.next())  
    out.println(rs.getString("id") + rs.getString("name") +  
        rs.getString("lastname") );
```
 - Configure web.xml and deploy your Tomcat application

Submission

- write one report
- submit **one pdf file** through OLE