

1. Analysis of the video tutorial

Target group

Everyone who wants to use Eclipse Dirigible, end users who will use the application for prototyping their projects.

Preliminary knowledge

Basic knowledge of programming and database

Main purpose

Gain basic knowledge about working with Dirigible

2. Written version of the tutorial

1. Open Eclipse Dirigible Web IDE.
2. Create an empty project.
3. Create New in the workspace:
 - a. click on New in the workspace explorer on the left
 - b. from the dropdown menu select Project.
 - c. give name to your project
 - d. click next
4. Create project
5. Right click on the project and under New select Data Structure.
6. To create Relational Database Table so select it and click next.
 - a. The first column of the table will be the id:
 - i. click add to add a new column.
 - ii. for the column name type ID, give it an INTEGER type and check the not null and primary key boxes
 - b. The second column is the name of the person who's going to register for the party
 - i. click Add
 - ii. for the column name type NAME, select VARCHAR type and set it's length to 255. This time select only the not null checkbox.
 - c. The last column we want to add is the age.
 - i. click Add
 - ii. for name type AGE, select INTEGER type and again select the not null checkbox.
7. Give the table a name – we'll call it nameday.table
8. In the workspace explorer under DataStructures we have our table defined and in the editor in the right you can see it's definition in JSON format.

9. For this data structure we want to generate a scripting service providing CRUD database operations. For this purpose, right click on the project and under New select ScriptingService.
10. From the available templates select JavaScript Entity Service on Table.
11. On the next page we select our table that we created. It's called nameday. Give the service a name – we'll call it nameday.js and click finish.
12. Under ScriptingServices Eclipse Dirigible generated for us an entity based on the table, a RESTfull on the endpoint nameday.js, a swagger API documentation and a library providing CRUD database operations.
13. To create the application, people are going to use to register for the nameday.
14. Right click on the entity and under Generate select User Interface for Entity Service.
15. From the predefined templates select Mobile Create Entities as this is the most appropriate template for our case where we want to register people.
16. Click next and we have all the fields defined for this entity.
17. We select the ones we want to be visible during registration and change the text of the labels that are displayed. For name we'll put "Your name" and for age – "Your age". Click next.
18. To specify the main file that tabris.js is going to load our application from. We'll give it the name register.js and we'll put in under the package register.
19. Click next and give the application the title "Register for nameday".
20. Click on finish and now under MobileApplications in the workspace explorer we have the package register and a basic tabris.js project created for us. Now for this to be more personalized we'll open the register.js file and change the message displayed when successfully created a new entity. On line 80 change the text to "You have successfully registered for the nameday" and click save.
21. For a separate application in which I can view who's registered for the nameday.
22. Right click on the nameday entity and under Generate select User Interface for Entity Service.
23. From the predefined templates select Mobile List and Manage Entities.
24. Select the columns that I want to view.
25. Click next and give the main file the name "manage.js" and put in under the package manage.
26. Click next and give the application the title "View who's coming".
27. Selecting Finish, new application is generated for us under the MobileApplications directory. This one is generated under the manage package.
28. Now we take out our phones, open Tabris.js and go to the URL tab. Enter the URL that I've typed here (MAKE SHORT-URL FOR REGISTRATION AND MANAGEMENT) and click Connect.
29. You're prompted with the registration application. As you can see the labels and the title are the ones we've put. We'll register a fake user with the name George and we'll set his age to be 23. Click Save and as you can see we have the confirmation message we put a while ago.
30. Swipe from the right to the left end of the screen, click on the home icon and this time go into the manage application. Now in the URL we substitute 'register' with 'manage' and click connect. Now we see the people who've registered for the nameday. You see the id of the record on the top right of the row, George's name and his age.

31. By clicking on the row, we can edit this record, for example, we can change his age if we know he lied. Click save and the data is updated.
32. Pull refresh if anyone has registered in the meantime and the new records will be displayed. You can swipe left or right to delete a record by pressing the Remove button.