

Project: Web Application – Milestone 2

*This project must be prepared in teams of **1 to 2** students and submitted on Campus. Check the due date in the submission area.*

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1 Work to Do

You have to complete the web application specified in milestone 1 by implementing additional features and by modifying its architecture, as follows.

1.1 Additional Application Features

Each user is now associated with a set of (key, value) pairs that are persisted in the database. Keys and values are of type String.

The user account page¹ displays the current set of (key, value) pairs of the current user. It also displays two additional fields, key and value, and two additional buttons, Add and Remove. These fields and these buttons allow the user to update his or her set of (key, value) pairs. The Update button defined in milestone 1 is no longer needed and therefore removed from the user account page.

1.2 Modified Application Architecture

The architecture of the application conforms to the JSP Model 2 pattern. As in milestone 1, the controller consists of a single servlet. Based on user input, it updates the model and then select the appropriate view to return. The selected view, in turn, retrieves the information to display by querying from the model. Contrary to milestone 1, the view now consists of a set of JSPs that the controller selects using a Dispatcher and the forward method.

The model consists of the following classes: the entity classes persisted in the databases, the data access classes encapsulating the related CRUD methods, and a facade class that encapsulate all the business

¹ see milestone 1

methods of the application. Finally, the facade class is implemented as a stateless or stateful Enterprise JavaBeans.

2 Test Environment

The application will be tested using the GlassFish application server version 5.0, and Java 8.

3 Submission

3.1 Deliverable

The deliverable consists of the web archive of your application. The archive contains all the files to deploy to the application server **as well as your source code**.

In order to identify the team members, you must rename the web archive as `LASTNAME1.FirstName1.LASTNAME2.FirstName2.war` **without any space character** before submitting it.

3.2 Submitting

Drop your Java file into the submission area, **only once per team**. You may submit the file again as often as you wish until the deadline, provided you **always do so under the same Campus user**.