**1. Tutorial**

**1.1 Deployment**

**1.1.1 Environment and source code**

Firstly, The application is deployed with Play! framework and MySQL

database. So we need preinstalled **Java** runtime environment and **MySQL** service

running functionally.

Secondly, deploy the runnable source code into an appropriate folder with

activator in it.

**1.1.2 Configuration**

**Database**

Our implementation delegate database connection to JDBC component. Settings of

username, password and database name is covered in the file (/ApacheCMDABackend/

conf/META-INF/persistence.xml).

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We utilized hibernate framework for data management. So the only prerequisite of

the database is an existing empty database named as is in the setting file. And

hibernate will complete the rest of the works automatically (e.g. Create tables,

inserting rows into database).

**Port Number**

The default port number the backend is 9034 which is defined in file “ApacheCMDAFrontend/

app/util/Constants.java”. When running the backend application, we

need to use 9034 as a parameter in the command line.

./activator “run 9034”

**1.2 Usage**

**1.2.1 Start the services**

􀀀 Start MySQL

*service mysql restart*

􀀀 Start Backend Application with right port number

*ApacheCMDA-Backend/activator “run 9034”*

􀀀 Start Frontend Application (Default port number is 9000)

*ApacheCMDA-Frontend/activator run*

**1.2.2 Signup/Login**

Logging into the website and click on the navigation button, which is obvious, the

user will be lead to a login/signup page. On this page, user is required to sign up

with a unique email address that will be used as a unique ID of the user.



**Figure 9.1. Signup/Login**

While trying to login to system, it will check whether the user is authenticated, and

with the identification, system is able to authorize user with certain privileges.

System will navigate user to the main use case - Timeline if user successfully sign up

& log into the system.

**1.2.3 Use the functions**

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Useage of this application is straightforward. Navigation bar (header) contains

almost all the entries of our implemented features. As in **Figure 9.2**, we can enter

any functions listed in the header with a click.



**Figure 9.2. Entries of implementations**

And for some account related functionalities, more specified entry points is listed in

the dropdown menu as in **Figure 9.3**.



**Figure 9.3. Dropdown menu of specific users**