

Use Case Document

Introduction

Do-D-Due is an application that allows a user to manage their daily tasks. This application allows the user to create a task list, edit and delete it via the android application or the web interface. The tasks will have a name, description, due date and priority. The user will be able to check off items in the list and will be able to hide them. The application will support multiple users, each one with their own lists.

Actors

Unregistered User

Any user can use this application. But before use, one has to register so that the application can maintain a private task list for the corresponding user.

Registered User

A user who has registered with the system is recognized with a username and authorized using a password.

Web User

The application can be used via the conventional web browsers like Internet Explorer, Mozilla etc. Users that access the application this way are addressed as web users.

Mobile User

Users who access the application via the Do-D-Due android application are addressed as mobile users.

Interactions

Login Screen

This is the first screen that any user is greeted with. It is used to do two things:

- Add a unregistered user
- Authorize a registered user

“Add User” button

An unregistered user can use this option to get access to the application. The user has to choose a username and password and register oneself.

“Login” button

A registered user can specify their username and password to access their private list and manipulate it.

Home Screen

As a user logs into the application, this is the main screen he/she interacts with.

“Add Task” button

This button takes the user to the add screen where one can add a task to their list of tasks.

“Hide Completed” check box

By default, the check box is empty and the tasks that have been marked as completed are displayed. When the user checks this box, those tasks are hidden.

“Mark Completed” check box

This check box is available for each task. It can be used by the user to mark a task to be completed.

“Long Press” on a task / “Single Click” on a task

These options are available for the mobile user and the web user correspondingly. They both do the same job of providing a user with the following options:

- Edit task: Takes the user to a screen where the selected task can be edited.
- Delete task: Removes the selected task from the list.

“Menu button” press / “Side bar” with options

These options are available for the mobile user and the web user correspondingly. They both do the same job of providing a user with the following options:

- Sort by due date: Arranges the tasks based on their due dates.
- Sort by priority: Arranges the tasks based on their priority.
- Synchronize/Save tasks: Mobile and Web users have this option to synchronize or save their tasks to the central database (CDB) respectively.
- Change password: Takes the user to a screen where one can modify their password.
- Logout: Logs out the current user out of the application.

Add / Edit Screen

The add and edit screen present the same fields and perform the add task and edit screen functionality respectively. In contrast to the add screen where the fields are empty, the edit screen's fields would be filled with details of the selected task. Other than the task name and the notes text boxes, the screen has the following fields:

“Set Due Time” check box

By default the due date and time of a task can be left blank. When the user checks this box, he/she is presented with the calendar and timer options to set the due date and time respectively.

“Priority” slide

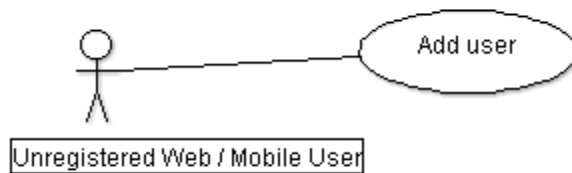
The default value of priority is “Low”. The user can use this slider to change it to either “High” or “Medium”.

“Save/Cancel” button

Once the user is done entering/editing the details, they can “Save” the changes so that it is saved in the local database and immediately reflected in the task list. Otherwise, the user can choose “Cancel” and discard all the changes.

Scenarios

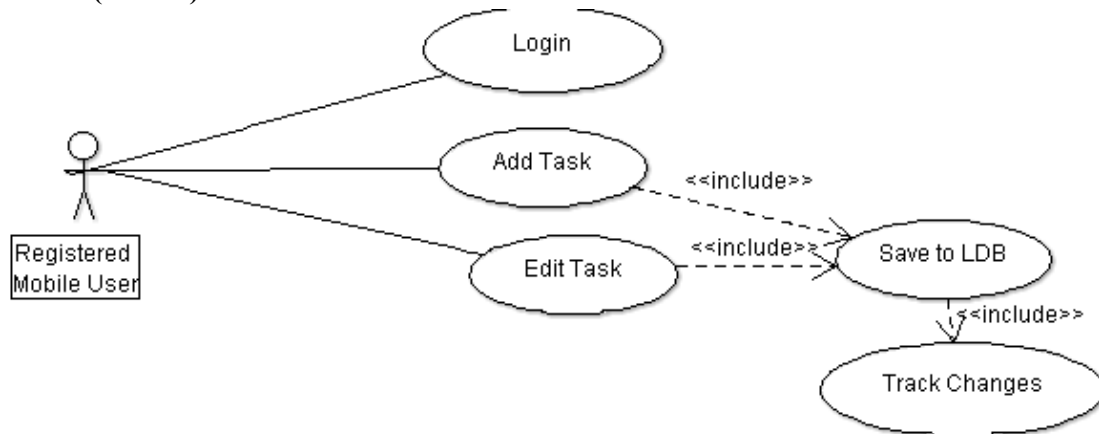
Registration



- An unregistered user opens the application and selects the add user option
- Enters the username, password
- Retypes the password
- Clicks on add user to add his username into the system

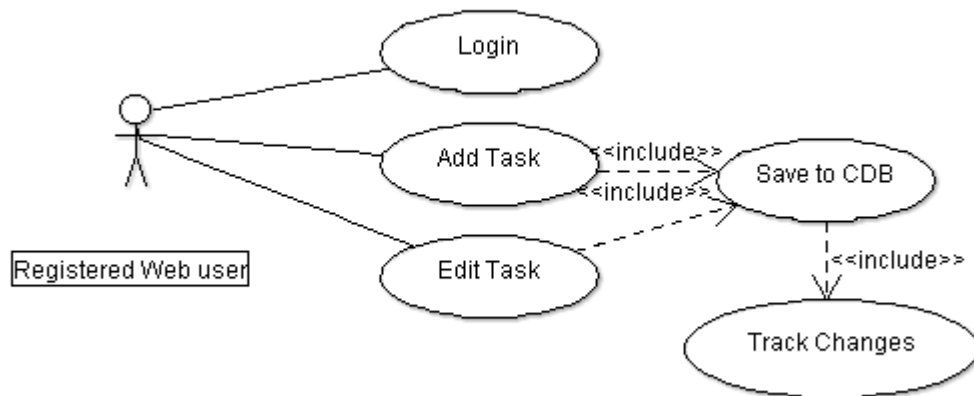
Task Manipulation

Add/Edit task(Mobile)



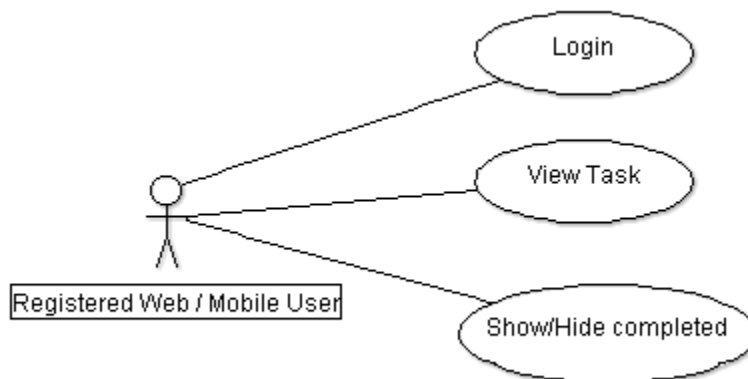
- A registered mobile user logs into the application using his credentials
- User decides to add a new task, he initiates the add task flow by clicking on the add task button
- User enters the task name and selects the due time and priority.
- User clicks on save to add the task to the Local Database (LDB)
- This LDB is synchronized with the CDB
- User clicks on cancel to return to the landing page then no database interactions occur

Add/Edit task (Web)



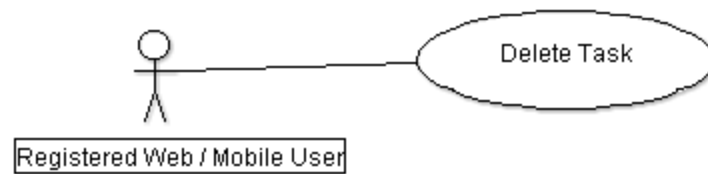
- A registered web user logs into the application using his credentials
- User decides to add a new task, he initiates the add task flow by clicking on the add task button
- User enters the task name and selects the due time and priority.
- User clicks on save to add the task to the CloudDatabase (LDB)
- This CDB is synchronized with the LDB
- User clicks on cancel to return to the landing page then no database interactions occur

Viewing Tasks



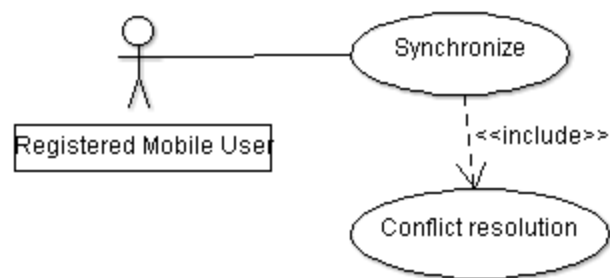
- User logs into the application.
- User views all the tasks on the home screen that follows the login screen.
- User hides the completed tasks, by toggling the “Hide completed tasks” checkbox.

Deleting Tasks



- Logged in user performs a long press on the task, selects the delete option and deletes the task from the list.

Synchronizing tasks



- * A registered Mobile user starts the mobile app, the LDB is synchronized with the CDB
- * A registered Mobile user performs an explicit synchronize to synchronize the LDB with the CDB