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Chosen Technology Stack

☒ Python + Django ☐ Python + TkInter

Features Implemented for Phase 1

- Create new task
- Update a task
- Delete a task

Persistent Storage Design

We are using the SQLite database to persist data. The database consists of two tables, `Assignment` and `Timer`, that are shown in Figure 1. The `Assignment` table has the primary key of `id` and attributes `name`, `due_date`, `class_name`, `description`, and `completed`, and the `Timer` table has the primary key of `id`, foreign key of `assignment_id_fk` and attributes `begin` and `end`.

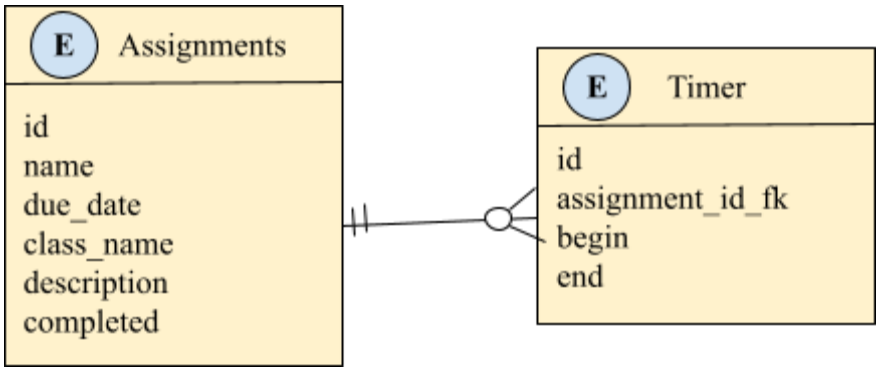

Figure 1 database schema

Demonstration of the Features Implemented for Phase 1

Homepage

Figure 2 shows a screenshot for the main page when the project is being run. This is a list of all the homework assignments that currently exist in the database. Each assignment has the option to

edit and delete. When the button is clicked, then the page is redirected to the appropriate action. The add assignment button redirects to the create page.

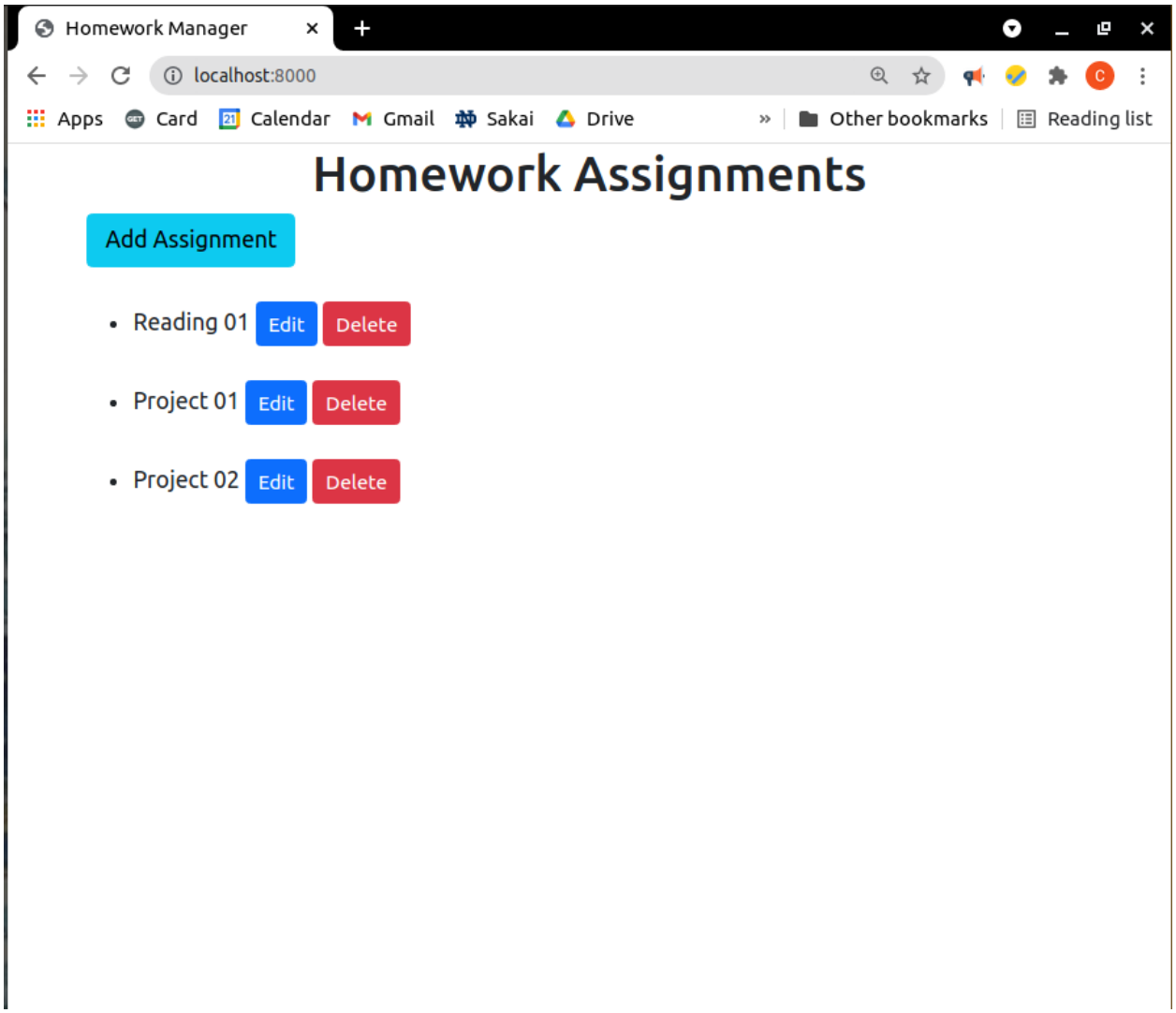

Figure 2 Screenshot showing the home page

Update a task

Figure 3 shows a screenshot for the update page. In this page, the data in the database is pre-loaded into the fields and can be edited. Once changes are made, then the update button is hit. This brings the user back to the home page and the changes saved. If any change is invalid, it will not allow the user to save.

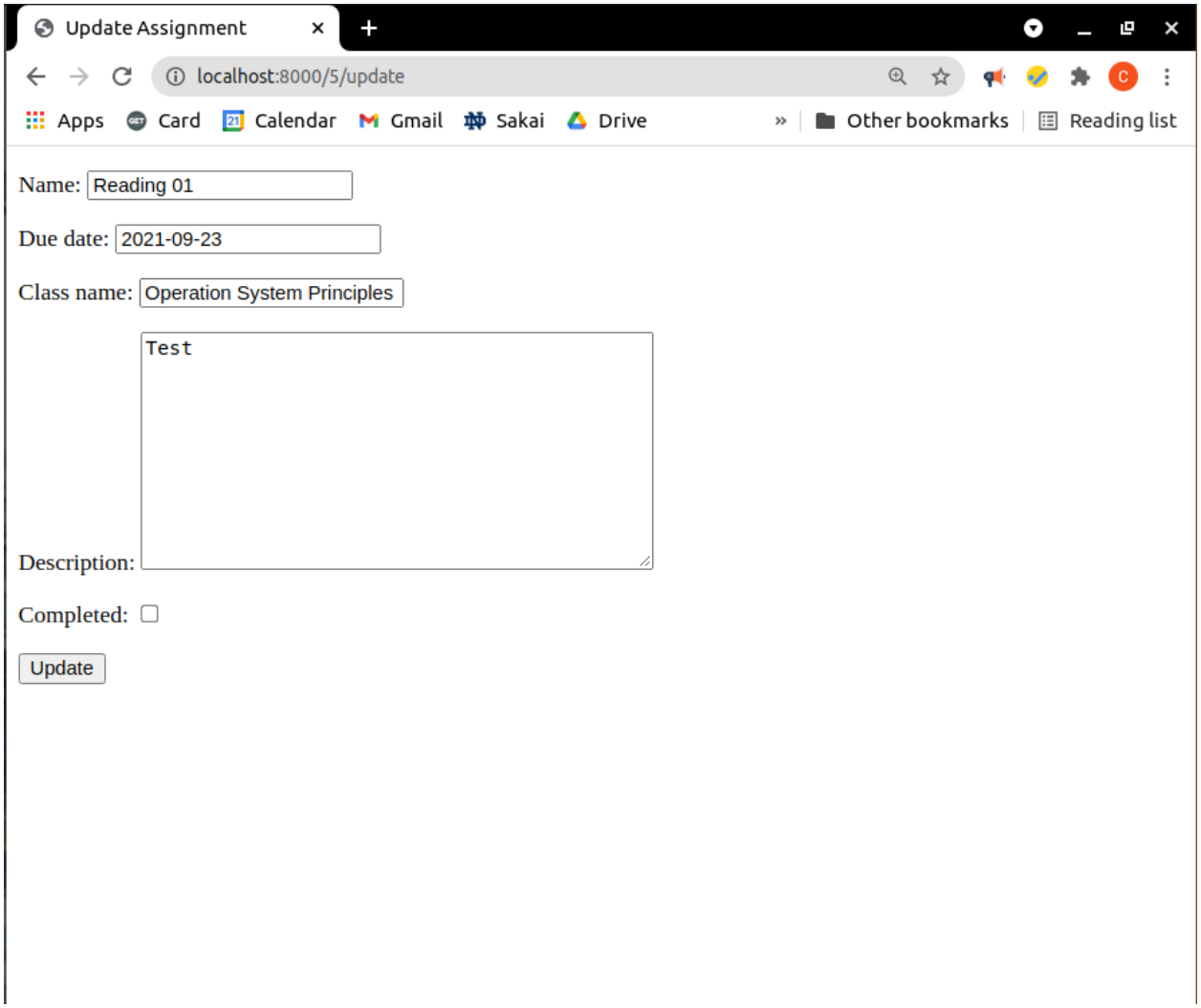

Figure 3 screenshot for updating a task

Create a task

Figure 4 shows a screenshot for creating an assignment. It is similar to the update page except no fields are pre-filled. The user has to fill all fields with valid inputs for the changes to be saved. Once submit is hit, then the values are saved to the database and will show up on the home page.

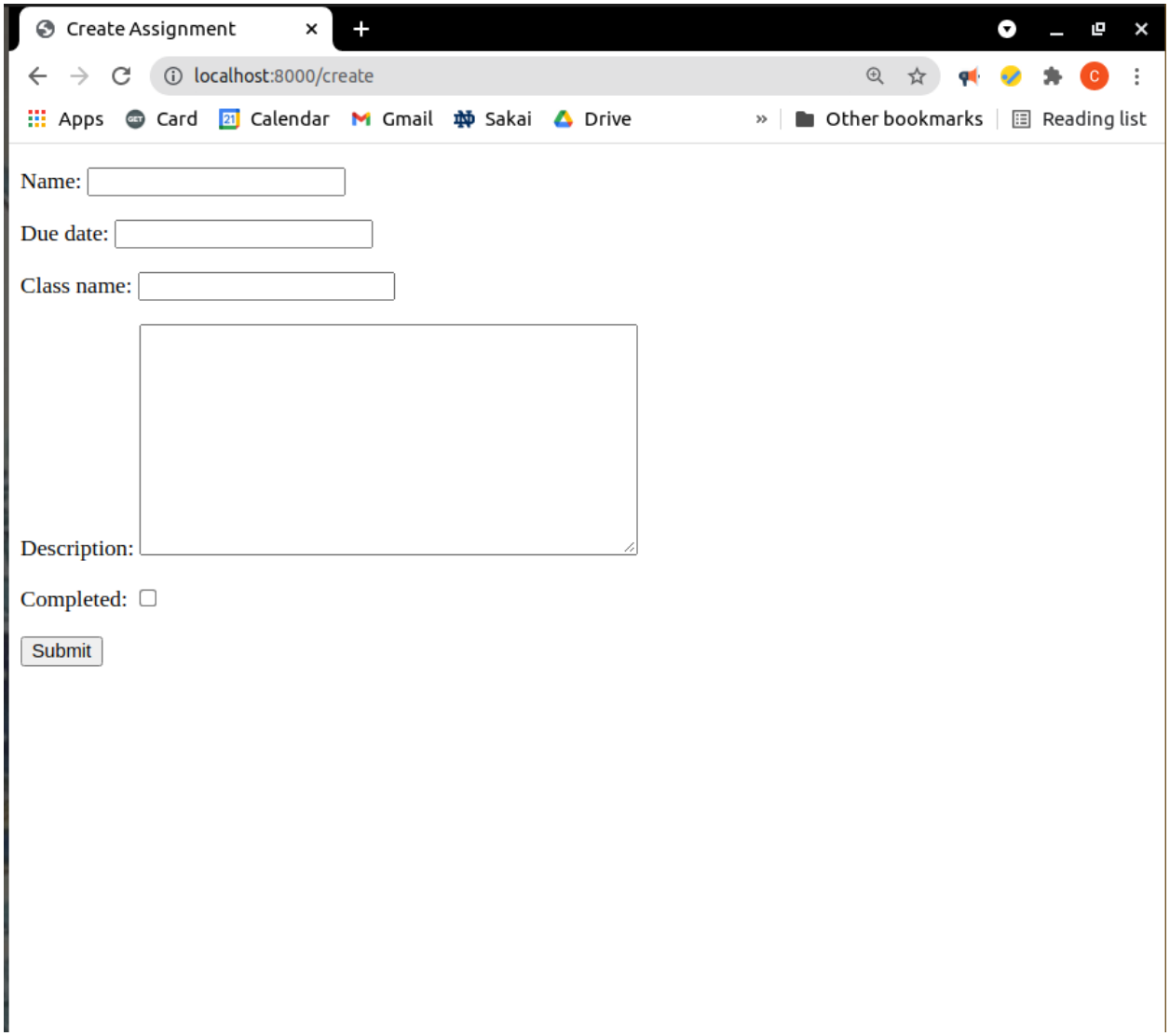

Figure 4 screenshot for creating a task

Delete a task

Figure 5 shows a screenshot for deleting an assignment. The page confirms that the user wants to delete the assignment they have selected. If so, the assignment is deleted from the SQLite database. If not, the user is returned to the home page.

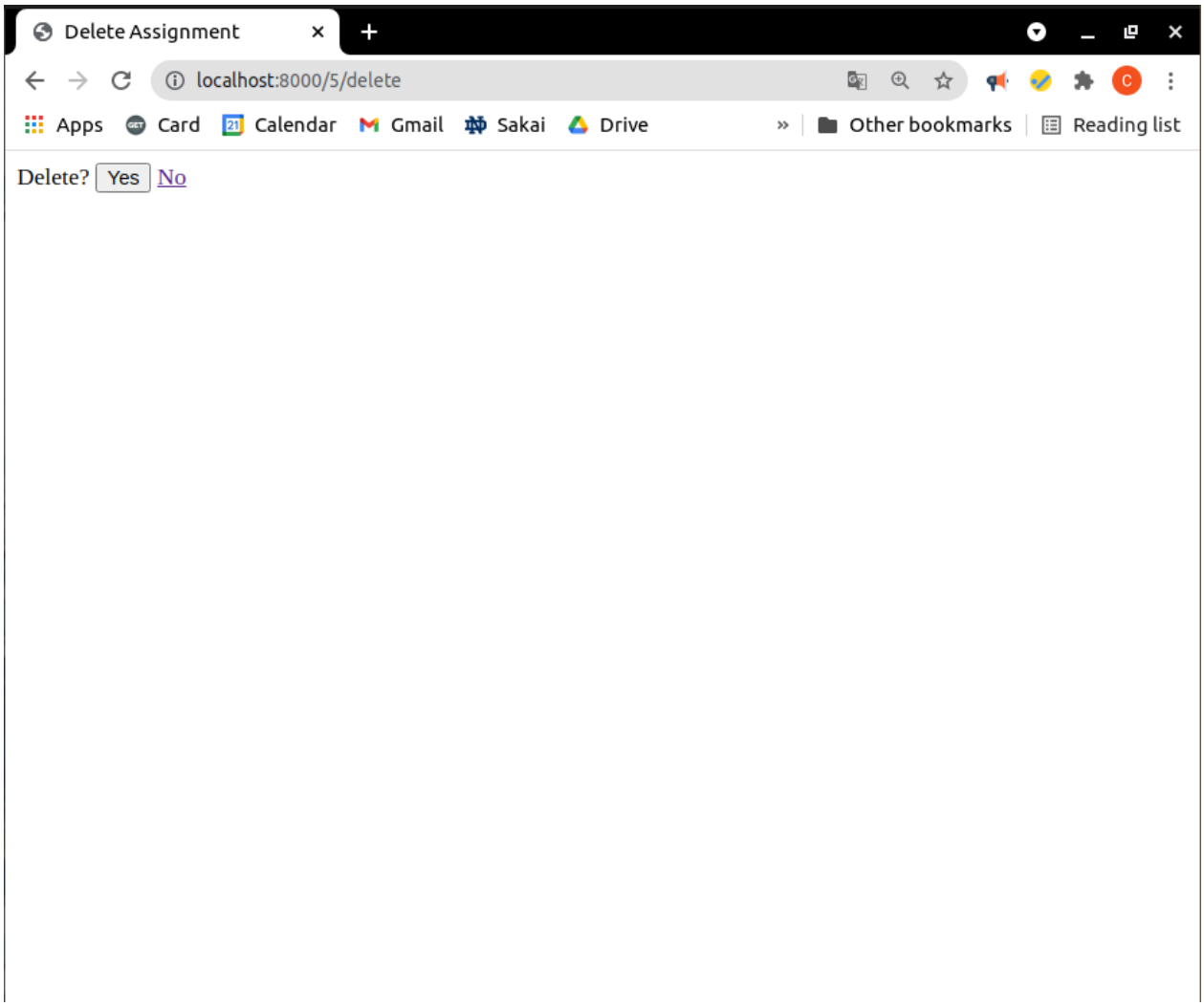

Figure 5 screenshot for deleting a task