

# Part 1

Flask

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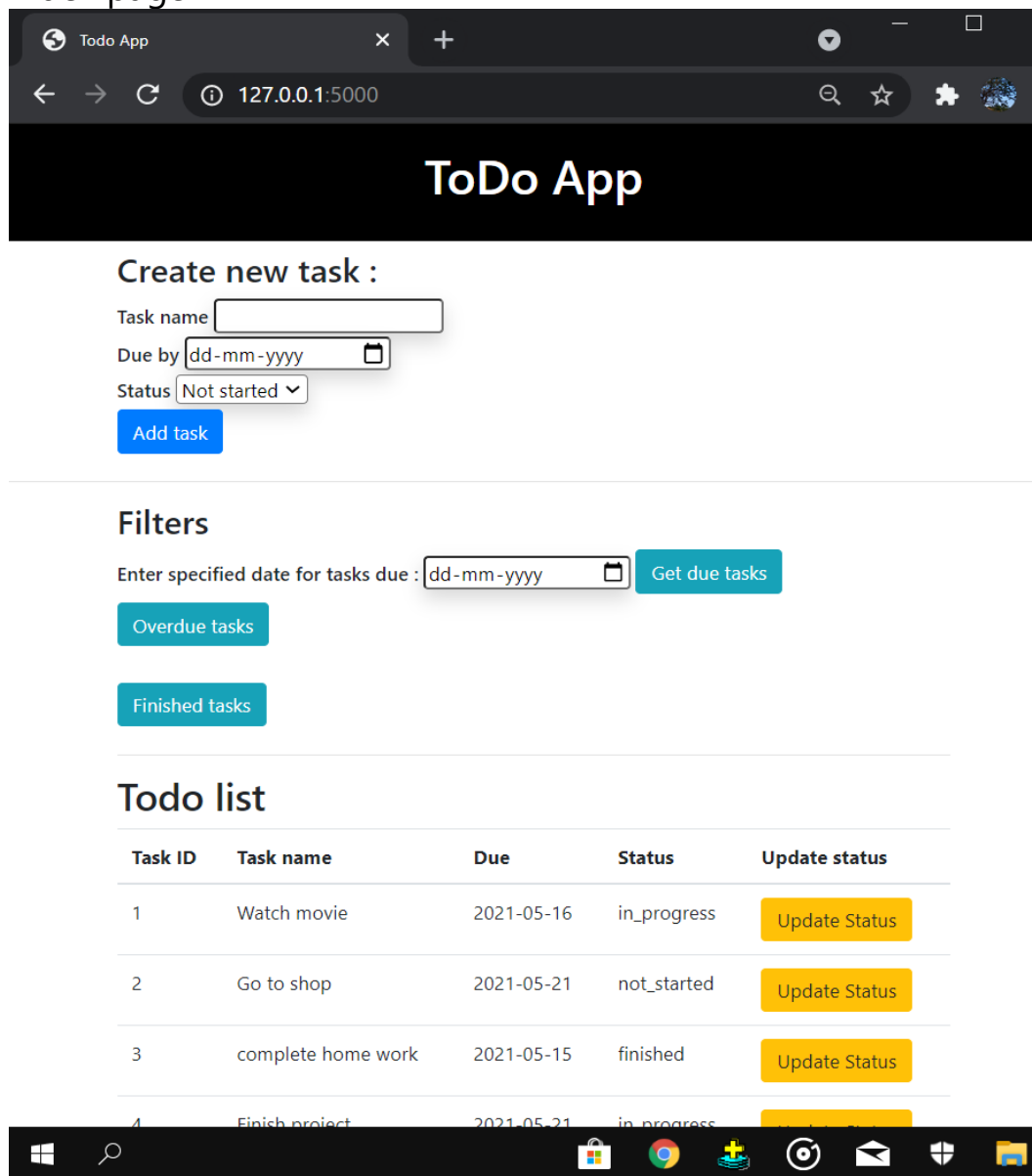
**185001046**

**19-05-2021**

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## Screenshots:

Index page



The screenshot shows a web browser window with the address bar displaying '127.0.0.1:5000'. The page title is 'ToDo App'. Below the title, there is a section for creating a new task. This section includes a text input for 'Task name', a date input for 'Due by' (formatted as dd-mm-yyyy), a dropdown menu for 'Status' (currently set to 'Not started'), and a blue 'Add task' button. Below this is a 'Filters' section with a date input for 'Enter specified date for tasks due to:' and a 'Get due tasks' button. There are also two buttons: 'Overdue tasks' and 'Finished tasks'. The main part of the page is a 'Todo list' table. The table has five columns: 'Task ID', 'Task name', 'Due', 'Status', and 'Update status'. It contains four rows of data. The first row shows a task with ID 1, 'Watch movie', due on 2021-05-16, with status 'in\_progress'. The second row shows a task with ID 2, 'Go to shop', due on 2021-05-21, with status 'not\_started'. The third row shows a task with ID 3, 'complete home work', due on 2021-05-15, with status 'finished'. The fourth row shows a task with ID 4, 'Finish project', due on 2021-05-21, with status 'in\_progress'. Each row has a yellow 'Update Status' button. The Windows taskbar is visible at the bottom of the screen.

Create new task :

Task name

Due by

Status

---

Filters

Enter specified date for tasks due to:

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Todo list

Task ID	Task name	Due	Status	Update status
1	Watch movie	2021-05-16	in_progress	<input type="button" value="Update Status"/>
2	Go to shop	2021-05-21	not_started	<input type="button" value="Update Status"/>
3	complete home work	2021-05-15	finished	<input type="button" value="Update Status"/>
4	Finish project	2021-05-21	in_progress	<input type="button" value="Update Status"/>


## MySQL Database

```
mysql> use task
Database changed
mysql> show tables;
+-----+
| Tables_in_task |
+-----+
| todo           |
+-----+
1 row in set (0.38 sec)

mysql> select * from todo;
+-----+-----+-----+-----+
| id | tname          | due       | status    |
+-----+-----+-----+-----+
| 1  | Watch movie    | 2021-05-16 | in_progress |
| 2  | Go to shop     | 2021-05-21 | not_started |
| 3  | complete home work | 2021-05-15 | finished   |
| 4  | Finish project | 2021-05-21 | in_progress |
+-----+-----+-----+-----+
4 rows in set (0.12 sec)

mysql>
```

## Create a new task

 127.0.0.1:5000  

ToDo App

Create new task :

Task name

Due by  

Status  

## Added task to the database

```
mysql> select * from todo;
+----+-----+-----+-----+
| id | tname          | due       | status    |
+----+-----+-----+-----+
| 1  | Watch movie    | 2021-05-16 | in_progress |
| 2  | Go to shop     | 2021-05-21 | not_started |
| 3  | complete home work | 2021-05-15 | finished   |
| 4  | Finish project | 2021-05-21 | in_progress |
| 5  | Play Scoccer   | 2021-05-23 | not_started |
+----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql>
```

## Update the status of any task by clicking update status

### Todo list

Task ID	Task name	Due	Status	Update status
1	Watch movie	2021-05-16	in_progress	<button>Update Status</button>
2	Go to shop	2021-05-21	not_started	<button>Update Status</button>
3	complete home work	2021-05-15	finished	<button>Update Status</button>
4	Finish project	2021-05-21	in_progress	<button>Update Status</button>
5	Play Scoccer	2021-05-23	not_started	<button>Update Status</button>



## UPDATE form opens

### Choose status and click update

The screenshot shows a web browser window with the address bar displaying '127.0.0.1:5000'. The page title is 'Todo App'. The main content area is titled 'Create new task :'. It contains a form with fields for 'Task name', 'Due by', and 'Status'. The 'Status' field is currently set to 'Not started'. Below the form is a blue 'Add task' button. To the left of the form is a 'Filters' section with a search bar and two buttons: 'Overdue tasks' and 'Finished tasks'. A modal form titled 'Update staus' (note the typo) is open in the center. It has a 'Status' dropdown menu currently showing 'Finished' and a blue 'Update' button. A 'Close' link is in the bottom right corner of the modal. Below the modal is a 'Todo list' section with a table of tasks.

Task ID	Task name	Due	Status	Update status
1	Watch movie	2021-05-16	in_progress	Update Status
2	Go to shop	2021-05-21	not_started	Update Status
3	complete home work	2021-05-15	finished	Update Status
4	Finish project	2021-05-21	in_progress	Update Status
5	Play Scoccer	2021-05-23	not_started	Update Status

## Updated in the database

Finish project task **in\_progress** to **finished**

3	complete home work	2021-05-15	finished	Update Status
4	Finish project	2021-05-21	finished	Update Status
5	Play Scooccer	2021-05-23	not_started	Update Status

## Before updating

```
mysql> select * from todo;
+----+-----+-----+-----+
| id | tname          | due       | status    |
+----+-----+-----+-----+
| 1  | Watch movie    | 2021-05-16 | in_progress |
| 2  | Go to shop     | 2021-05-21 | not_started |
| 3  | complete home work | 2021-05-15 | finished   |
| 4  | Finish project | 2021-05-21 | in_progress |
| 5  | Play Scooccer  | 2021-05-23 | not_started |
+----+-----+-----+-----+
5 rows in set (0.00 sec)
```

## After update

```
mysql> select * from todo;
+----+-----+-----+-----+
| id | tname          | due       | status    |
+----+-----+-----+-----+
| 1  | Watch movie    | 2021-05-16 | in_progress |
| 2  | Go to shop     | 2021-05-21 | not_started |
| 3  | complete home work | 2021-05-15 | finished   |
| 4  | Finish project | 2021-05-21 | finished   |
| 5  | Play Scooccer  | 2021-05-23 | not_started |
+----+-----+-----+-----+
5 rows in set (0.00 sec)
```

## Filters :

### 1. get due tasks on a specified date

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### Filters

Enter specified date for tasks due :  

[Get due tasks](#)

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**New page** with task displayed with **return home** and **update status** option available with it

Document

127.0.0.1:5000/due?due\_date=2021-05-23

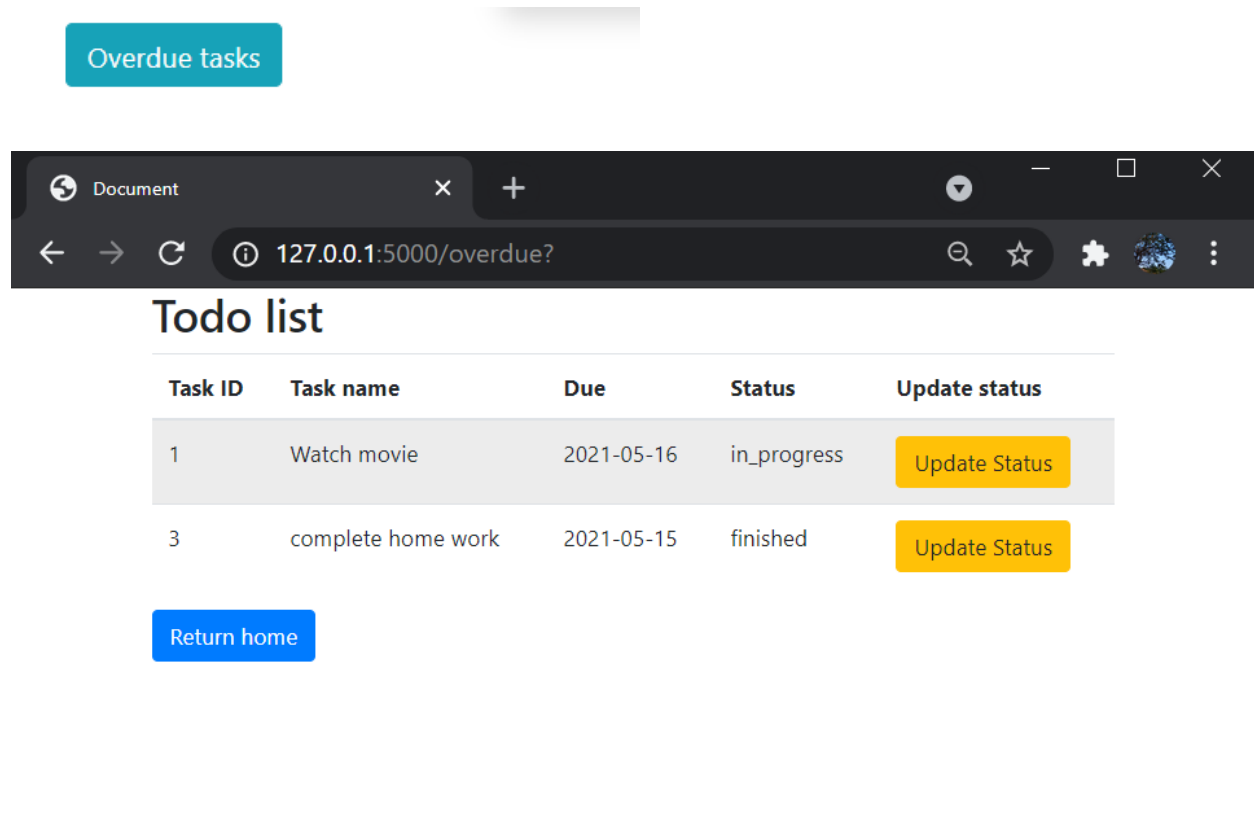
## Todo list

Task ID	Task name	Due	Status	Update status
5	Play Soccer	2021-05-23	not_started	<a href="#">Update Status</a>

[Return home](#)

## 2. Overdue tasks on date when the query is run.

Overdue tasks

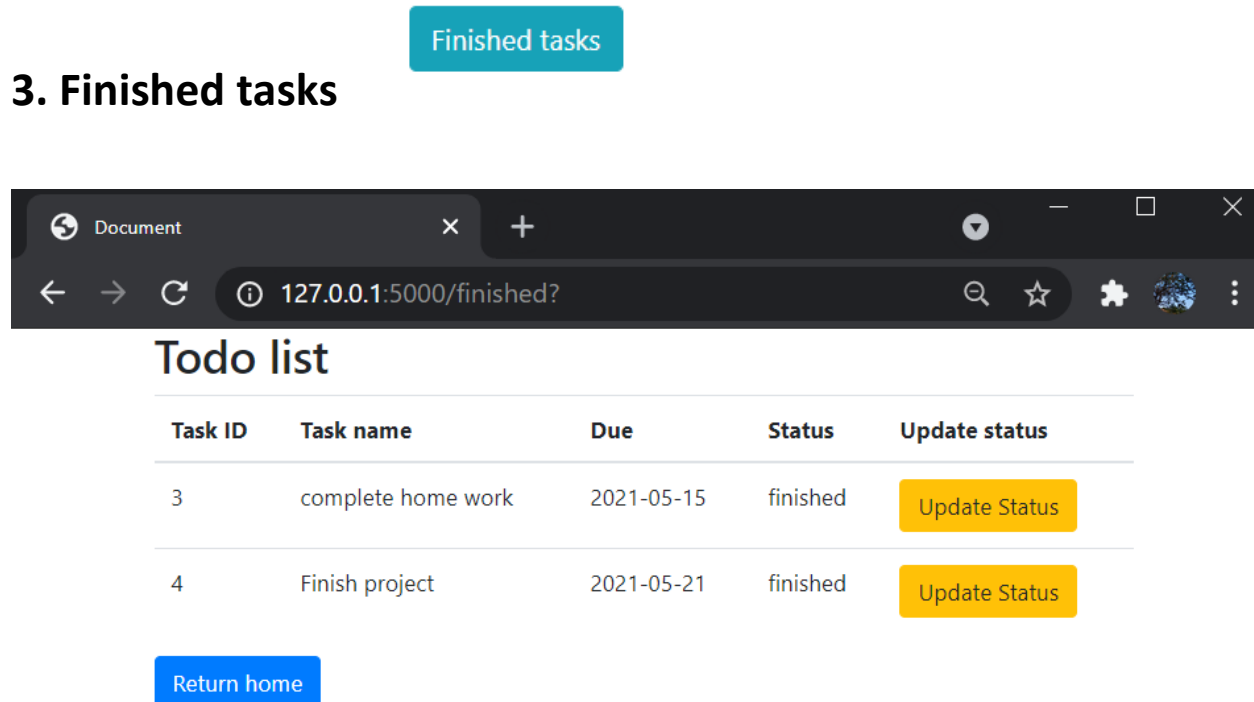


Task ID	Task name	Due	Status	Update status
1	Watch movie	2021-05-16	in_progress	Update Status
3	complete home work	2021-05-15	finished	Update Status

Return home

## 3. Finished tasks

Finished tasks



Task ID	Task name	Due	Status	Update status
3	complete home work	2021-05-15	finished	Update Status
4	Finish project	2021-05-21	finished	Update Status

Return home

## Command prompt:

```
C:\Windows\System32\cmd.exe - flask run
Microsoft Windows [Version 10.0.19041.685]
(c) 2020 Microsoft Corporation. All rights reserved.

E:\flask>env\Scripts\activate

(env) E:\flask>set FLASK_ENV=development

(env) E:\flask>flask run
* Environment: development
* Debug mode: on
* Restarting with stat
* Debugger is active!
* Debugger PIN: 294-580-462
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
127.0.0.1 - - [19/May/2021 17:09:19] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [19/May/2021 17:09:20] "GET /favicon.ico HTTP/1.1" 404 -
127.0.0.1 - - [19/May/2021 17:09:54] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [19/May/2021 17:13:18] "POST /add HTTP/1.1" 302 -
127.0.0.1 - - [19/May/2021 17:13:18] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [19/May/2021 17:15:48] "POST /update HTTP/1.1" 302 -
127.0.0.1 - - [19/May/2021 17:15:49] "GET / HTTP/1.1" 200 -
2021-05-23
127.0.0.1 - - [19/May/2021 17:18:17] "GET /due?due_date=2021-05-23 HTTP/1.1" 200 -
127.0.0.1 - - [19/May/2021 17:18:37] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [19/May/2021 17:19:32] "GET /overdue HTTP/1.1" 200 -
127.0.0.1 - - [19/May/2021 17:19:58] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [19/May/2021 17:20:17] "GET /finished HTTP/1.1" 200 -
127.0.0.1 - - [19/May/2021 17:20:53] "GET / HTTP/1.1" 200 -
```