

Flask Project on Profile Creation using HTML and Python

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ABSTRACT

Profile creation using HTML as front end, python as a language for **CRUD** operation with MySQL as Database.

OBJECTIVE

The main objectives of this project is:

To understand and develop the skills in designing a dynamic Web Page using HTML.

Architecture Diagram



- ❑ Data Transfer from Front End HTML Page to backend MySQL DB through a REST model XAMPP WEB Service deployed using a local host.
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System Requirements

Hardware

- ❑ Processor - Intel core duo or higher
- ❑ RAM - 4GB minimum
- ❑ Disk - 500 GB
- ❑ Monitor - 15" color with VGI card
- ❑ Speed - Min 500MHz

Software

- ❑ OS - Windows-10 for emulator
 - ❑ Editor- Visual Studio
 - ❑ IDLE - Python
 - ❑ Server - XAMPP
-

Functional Description

1. CRUD (Create)

During first time entry, an HTML page accepts first name, last name, gender, mobile number and date. Any number of records can be created.

Facility is incorporated in DB design to have Row ID as Auto Increment so that the primary key is the row id which is not visible as a column. So no need for validation on the uniqueness of the record.

Functional Description

2. CRUD (Read/Update)

To inquire about a record, a JINJA template in HTML is used and records are displayed with hyperlink reference for editing an existing record and deleting a record from the database in the home page.

The same screen is used for Editing/Modifying an existing record in the DB.

Functional Description

3. CRUD (Delete)

To delete a record, a JINJA template in HTML is used and records are displayed with hyperlink reference for editing an existing record and deleting a record from the database in the home page and deletion is done through this page with no other extra page to navigate.

Screens

Creation :

ToDo App x +

127.0.0.1:5000/form

Create task

FirstName

LastName

Gender

CountryCode

Country

PhoneNumber

DATE

Screens

Creation : Created Entries showing in the Home Page



The screenshot shows a web browser window with the address bar displaying 'localhost / 127.0.0.1 / todoapp / x' and the page title 'TODO DASHBOARD'. The browser's address bar shows '127.0.0.1:5000'. The page content is titled 'ToDo Home page' and includes a link 'Create task'. Below the link is a table with 8 columns: FirstName, LastName, Gender, CountryName, PhoneNumber, Date, Edit, and Delete. The table contains 14 rows of data, each with a unique entry and corresponding 'Edit' and 'Delete' links.

FirstName	LastName	Gender	CountryName	PhoneNumber	Date	Edit	Delete
Abirami	S	Male		9941041448	2022-12-21	Edit	Delete
VijayKumar	S	male		9784568440	2022-12-06	Edit	Delete
Gayathri	S	female		7894675896	2022-01-28	Edit	Delete
Ajay	C	male		7234458901	2022-12-22	Edit	Delete
GOPIKUMAR	S	male		3459927567	2022-12-28	Edit	Delete
GOPIKUMAR	NAMBISAN	male		7010853231	2022-12-14	Edit	Delete
NARAYANAN	K	male		6379448112	2022-12-29	Edit	Delete
PADMA	N	Female		8778010978	2022-12-14	Edit	Delete
Janaki	S	Female		9941041440	2022-12-07	Edit	Delete
GOPIKRISHNAN	V	Male		3459927567	2022-12-26	Edit	Delete
NARAYANAN	KRISHNAN	Male		8778010978	2022-12-08	Edit	Delete
GIRISHKUMAR	V	Male	India	9941041440	2022-12-01	Edit	Delete

Screens

Read / Select: Records shown in Command Prompt

```
* Debugger PIN: 436-281-151
127.0.0.1 - - [14/Dec/2022 13:23:27] "GET /form HTTP/1.1" 200 -
127.0.0.1 - - [14/Dec/2022 13:23:42] "POST /store HTTP/1.1" 302 -
((23, 'Abirami', 'S', 'Male', '', 9941041448, datetime.date(2022, 12, 21)), (24, 'VijayKumar', 'S', 'male', '', 9784568440, datetime.date(2022, 12, 6)), (26, 'Gayathri', 'S', 'female', '', 7894675896, datetime.date(2022, 1, 28)), (27, 'Ajay', 'C', 'male', '', 7234458901, datetime.date(2022, 12, 22)), (28, 'GOPIKUMAR', 'S', 'male', '', 3459927567, datetime.date(2022, 12, 28)), (30, 'GOPIKUMAR', 'NAMBISAN', 'male', '', 7010853231, datetime.date(2022, 12, 14)), (31, 'NARAYANAN', 'K', 'male', '', 6379448112, datetime.date(2022, 12, 29)), (32, 'PADMA', 'N', 'Female', '', 8778010978, datetime.date(2022, 12, 14)), (33, 'Janaki', 'S', 'Female', '', 9941041440, datetime.date(2022, 12, 7)), (36, 'GOPIKRISHNAN', 'V', 'Male', '', 3459927567, datetime.date(2022, 12, 26)), (37, 'NARAYANAN', 'KRISHNAN', 'Male', '', 8778010978, datetime.date(2022, 12, 8)), (38, 'GIRISHKUMAR', 'V', 'Male', 'India', 9941041440, datetime.date(2022, 12, 1)))
127.0.0.1 - - [14/Dec/2022 13:23:42] "GET / HTTP/1.1" 200 -
```

Screens

Read / Update:

The screenshot shows a web browser window with a single tab titled 'Update'. The address bar displays the URL '127.0.0.1:5000/edit/23'. The main content area has a light blue background and is titled 'Update Task'. It contains a form with the following fields: 'FirstName' (text input with 'Abirami'), 'LastName' (text input with 'S'), 'Gender' (dropdown menu with 'Male' selected), 'CountryCode' (text input with '+91'), 'Country' (dropdown menu with 'India' selected), 'PhoneNumber' (text input with '9941041448'), and 'Date' (calendar icon with '21-12-2022' selected). Below the 'Date' field is an 'Update' button. The Windows taskbar is visible at the bottom, showing the search bar, task view button, and several application icons. The system tray on the right shows the time '12:28' and date '14-12-2022'.

Update

127.0.0.1:5000/edit/23

Update Task

FirstName:

LastName:

Gender:

CountryCode:

Country:

PhoneNumber:

Date:

Screens

Update : Updated Entries showing in the Home Page

The screenshot shows a web browser window with the address bar displaying 'localhost / 127.0.0.1 / todoapp / x' and 'TODO DASHBOARD'. The page title is 'ToDo Home page'. Below the title, there is a link 'Create task'. The main content area features a table with the following data:

FirstName	LastName	Gender	CountryName	PhoneNumber	Date	Edit	Delete
Abirami	S	Male		9941041448	2022-12-21	Edit	Delete
VijayKumar	S	male		9784568440	2022-12-06	Edit	Delete
Gayathri	S	female		7894675896	2022-01-28	Edit	Delete
Ajay	C	male		7234458901	2022-12-22	Edit	Delete
GOPIKUMAR	S	male		3459927567	2022-12-28	Edit	Delete
GOPIKUMAR	NAMBISAN	male		7010853231	2022-12-14	Edit	Delete
NARAYANAN	K	male		6379448112	2022-12-29	Edit	Delete
PADMA	N	Female		8778010978	2022-12-14	Edit	Delete
Janaki	S	Female		9941041440	2022-12-07	Edit	Delete
GOPIKRISHNAN	V	Male		3459927567	2022-12-26	Edit	Delete
NARAYANAN	KRISHNAN	Male		8778010978	2022-12-08	Edit	Delete
GIRISHKUMAR	V	Male	India	9941041440	2022-12-01	Edit	Delete
GIRISHKUMAR	NARAYANAN	Male	India	9941041440	2022-11-28	Edit	Delete

Screens

Update : Updated Entries showing in the Database

Server: 127.0.0.1 » Database: todoapp » Table: task

	ID	FirstName	LastName	Gender	CountryName	PhoneNumber	date
<input type="checkbox"/>	23	Abirami	S	Male		9941041448	2022-12-21
<input type="checkbox"/>	24	VijayKumar	S	male		9784568440	2022-12-06
<input type="checkbox"/>	26	Gayathri	S	female		7894675896	2022-01-28
<input type="checkbox"/>	27	Ajay	C	male		7234458901	2022-12-22
<input type="checkbox"/>	28	GOPIKUMAR	S	male		3459927567	2022-12-28
<input type="checkbox"/>	30	GOPIKUMAR	NAMBISAN	male		7010853231	2022-12-14
<input type="checkbox"/>	31	NARAYANAN	K	male		6379448112	2022-12-29
<input type="checkbox"/>	32	PADMA	N	Female		8778010978	2022-12-14
<input type="checkbox"/>	33	Janaki	S	Female		9941041440	2022-12-07
<input type="checkbox"/>	36	GOPIKRISHNAN	V	Male		3459927567	2022-12-26
<input type="checkbox"/>	37	NARAYANAN	KRISHNAN	Male		8778010978	2022-12-08
<input type="checkbox"/>	38	GIRISHKUMAR	V	Male	India	9941041440	2022-12-01
<input type="checkbox"/>	39	GIRISHKUMAR	NARAYANAN	Male	India	9941041440	2022-11-28

Screens

Delete : Deleted Entries not showing in the Home Page



localhost / 127.0.0.1 / todoapp / x

TODO DASHBOARD

127.0.0.1:5000

ToDo Home page

Create task

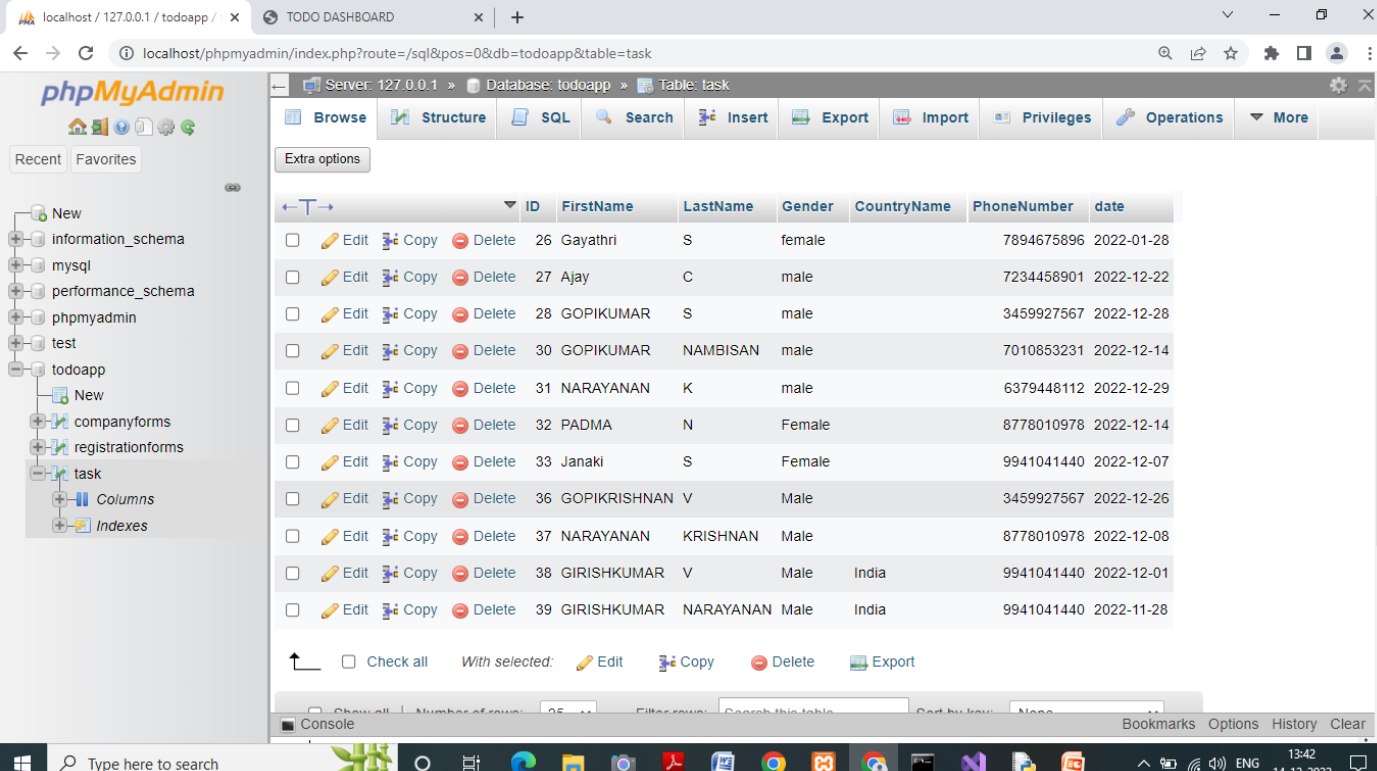
FirstName	LastName	Gender	CountryName	PhoneNumber	Date	Edit	Delete
Gayathri	S	female		7894675896	2022-01-28	Edit	Delete
Ajay	C	male		7234458901	2022-12-22	Edit	Delete
GOPIKUMAR	S	male		3459927567	2022-12-28	Edit	Delete
GOPIKUMAR	NAMBISAN	male		7010853231	2022-12-14	Edit	Delete
NARAYANAN	K	male		6379448112	2022-12-29	Edit	Delete
PADMA	N	Female		8778010978	2022-12-14	Edit	Delete
Janaki	S	Female		9941041440	2022-12-07	Edit	Delete
GOPIKRISHNAN	V	Male		3459927567	2022-12-26	Edit	Delete
NARAYANAN	KRISHNAN	Male		8778010978	2022-12-08	Edit	Delete
GIRISHKUMAR	V	Male	India	9941041440	2022-12-01	Edit	Delete
GIRISHKUMAR	NARAYANAN	Male	India	9941041440	2022-11-28	Edit	Delete

Type here to search

13:41 14-12-2022

Screens

Delete : Deleted Entries not showing in the Database



The screenshot shows the phpMyAdmin interface for a database named 'todoapp'. The table 'task' is selected, and the 'Delete' button is highlighted for the first entry. The table contains 10 entries with columns: ID, FirstName, LastName, Gender, CountryName, PhoneNumber, and date.

ID	FirstName	LastName	Gender	CountryName	PhoneNumber	date
26	Gayathri	S	female		7894675896	2022-01-28
27	Ajay	C	male		7234458901	2022-12-22
28	GOPIKUMAR	S	male		3459927567	2022-12-28
30	GOPIKUMAR	NAMBISAN	male		7010853231	2022-12-14
31	NARAYANAN	K	male		6379448112	2022-12-29
32	PADMA	N	Female		8778010978	2022-12-14
33	Janaki	S	Female		9941041440	2022-12-07
36	GOPIKRISHNAN	V	Male		3459927567	2022-12-26
37	NARAYANAN	KRISHNAN	Male		8778010978	2022-12-08
38	GIRISHKUMAR	V	Male	India	9941041440	2022-12-01
39	GIRISHKUMAR	NARAYANAN	Male	India	9941041440	2022-11-28

Screens

Delete: Deleted Records shown in Command Prompt

```
127.0.0.1 - - [14/Dec/2022 13:40:43] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [14/Dec/2022 13:40:46] "GET /delete/23 HTTP/1.1" 302 -
((24, 'VijayKumar', 'S', 'male', '', 9784568440, datetime.date(2022, 12, 6)), (26, 'Gayathri', 'S', 'female', '', 7894675896, datetime.date(2022, 1, 28)), (27, 'Ajay', 'C', 'male', '', 7234458901, datetime.date(2022, 12, 22)), (28, 'GOPIKUMAR', 'S', 'male', '', 3459927567, datetime.date(2022, 12, 28)), (30, 'GOPIKUMAR', 'NAMBISAN', 'male', '', 7010853231, datetime.date(2022, 12, 14)), (31, 'NARAYANAN', 'K', 'male', '', 6379448112, datetime.date(2022, 12, 29)), (32, 'PADMA', 'N', 'Female', '', 8778010978, datetime.date(2022, 12, 14)), (33, 'Janaki', 'S', 'Female', '', 9941041440, datetime.date(2022, 12, 7)), (36, 'GOPIKRISHNAN', 'V', 'Male', '', 3459927567, datetime.date(2022, 12, 26)), (37, 'NARAYANAN', 'KRISHNAN', 'Male', '', 8778010978, datetime.date(2022, 12, 8)), (38, 'GIRISHKUMAR', 'V', 'Male', 'India', 9941041440, datetime.date(2022, 12, 1)), (39, 'GIRISHKUMAR', 'NARAYANAN', 'Male', 'India', 9941041440, datetime.date(2022, 11, 28)))
127.0.0.1 - - [14/Dec/2022 13:40:46] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [14/Dec/2022 13:40:47] "GET /delete/24 HTTP/1.1" 302 -
((26, 'Gayathri', 'S', 'female', '', 7894675896, datetime.date(2022, 1, 28)), (27, 'Ajay', 'C', 'male', '', 7234458901, datetime.date(2022, 12, 22)), (28, 'GOPIKUMAR', 'S', 'male', '', 3459927567, datetime.date(2022, 12, 28)), (30, 'GOPIKUMAR', 'NAMBISAN', 'male', '', 7010853231, datetime.date(2022, 12, 14)), (31, 'NARAYANAN', 'K', 'male', '', 6379448112, datetime.date(2022, 12, 29)), (32, 'PADMA', 'N', 'Female', '', 8778010978, datetime.date(2022, 12, 14)), (33, 'Janaki', 'S', 'Female', '', 9941041440, datetime.date(2022, 12, 7)), (36, 'GOPIKRISHNAN', 'V', 'Male', '', 3459927567, datetime.date(2022, 12, 26)), (37, 'NARAYANAN', 'KRISHNAN', 'Male', '', 8778010978, datetime.date(2022, 12, 8)), (38, 'GIRISHKUMAR', 'V', 'Male', 'India', 9941041440, datetime.date(2022, 12, 1)), (39, 'GIRISHKUMAR', 'NARAYANAN', 'Male', 'India', 9941041440, datetime.date(2022, 11, 28)))
127.0.0.1 - - [14/Dec/2022 13:40:47] "GET / HTTP/1.1" 200 -
((26, 'Gayathri', 'S', 'female', '', 7894675896, datetime.date(2022, 1, 28)), (27, 'Ajay', 'C', 'male', '', 7234458901, datetime.date(2022, 12, 22)), (28, 'GOPIKUMAR', 'S', 'male', '', 3459927567, datetime.date(2022, 12, 28)), (30, 'GOPIKUMAR', 'NAMBISAN', 'male', '', 7010853231, datetime.date(2022, 12, 14)), (31, 'NARAYANAN', 'K', 'male', '', 6379448112, datetime.date(2022, 12, 29)), (32, 'PADMA', 'N', 'Female', '', 8778010978, datetime.date(2022, 12, 14)), (33, 'Janaki', 'S', 'Female', '', 9941041440, datetime.date(2022, 12, 7)), (36, 'GOPIKRISHNAN', 'V', 'Male', '', 3459927567, datetime.date(2022, 12, 26)), (37, 'NARAYANAN', 'KRISHNAN', 'Male', '', 8778010978, datetime.date(2022, 12, 8)), (38, 'GIRISHKUMAR', 'V', 'Male', 'India', 9941041440, datetime.date(2022, 12, 1)), (39, 'GIRISHKUMAR', 'NARAYANAN', 'Male', 'India', 9941041440, datetime.date(2022, 11, 28)))
127.0.0.1 - - [14/Dec/2022 13:41:07] "GET / HTTP/1.1" 200 -
```

Screens

Database Structure:

The screenshot displays the phpMyAdmin interface for a local development environment. The browser address bar shows the URL: `localhost/phpmyadmin/index.php?route=/table/structure&db=todoapp&table=task`. The interface is divided into a left sidebar, a top navigation bar, and a main content area.

Left Sidebar: Shows a tree view of databases and tables. The 'todoapp' database is selected, and the 'task' table is highlighted. Below the tree, there are links for 'Columns' and 'Indexes'.

Top Navigation Bar: Contains tabs for 'Browse', 'Structure', 'SQL', 'Search', 'Insert', 'Export', 'Import', 'Privileges', 'Operations', and 'Tracking'. The 'Structure' tab is active.

Main Content Area: Displays the 'Table structure' view for the 'task' table. It shows a table with 7 columns:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	ID	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	FirstName	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
3	LastName	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
4	Gender	char(10)	utf8mb4_general_ci		No	None			Change Drop More
5	CountryName	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
6	PhoneNumber	bigint(20)			No	None			Change Drop More
7	date	date			No	None			Change Drop More

Below the table, there are options to 'Check all', 'With selected', and 'Fulltext'. There are also links for 'Browse', 'Change', 'Drop', 'Primary', 'Unique', 'Index', and 'Spatial'. At the bottom, there are links for 'Add to central columns' and 'Remove from central columns'.

Thank You
