

Assessment Report:

Introduction:

Fastapi is modern, fast and web framework for building API's.

- Easy: Designed to be easy to use and learn. Less time reading docs.
- Short: Minimize code duplication. Multiple features from each parameter declaration. Fewer bugs.
- Robust: Get production-ready code. With automatic interactive documentation.
- Standards-based: Based on (and fully compatible with) the open standards for APIs: OpenAPI (previously known as Swagger)

Problem description

Let us suppose a small startup wants to build a Lost and Found platform which would help the end user to search and view the lost items and upload the found items. Let us suppose you got the opportunity to join this startup as a backend Intern. You must provide clear and complete documentation about how to run your program. You should be able to handle different routes in your app. The following features Restful APIs implementation is given to you as a first task to build for a lost and found platform.

Solution

By using fastapi and mysql we develop an application which is going to solve the above-mentioned problem. User can be able to:

- Create User
- Read User
- Search user by id
- Create item
- Read item
- Search item by title
- Update item
- Delete item

Read user



GET /users/ Read Users

Create User



POST /users/ Create User

Search User By ID



GET /users/{user_id} Read User

Create Items



POST /users/{user_id}/items/ Create Item For User

Read items



GET /items/ Read Items

Serch Item By Title



GET /items/{item_title} Read Items Title

Update items



PUT /items Update Items

Delete items



DELETE /items Delete Items

Tools and technologies

- Fastapi
- Mysql
- Sqlalchemy
- Python3
- Visual code
- Ubuntu

Conclusions

An application is developed which assists user to perform different operations like read user, create user, search user, read items, create items, search items, update items and delete items.