



Poster ID

# Questions and answers forum implementation Software modeling

Juan Pablo Mosquera, Joshua Alacarcon, Bogota, colombia  
Distrital University Francisco Jose de Caldas



## Project type

- Backend development using software modeling patterns

## Abstract

- forums have played a significant role in connecting users and facilitating discussions. Today, forums remain a vital part of the web ecosystem, providing a unique space for individuals to connect and exchange ideas on a wide range of topics.

We strive to show the process in modeling and deploying one of the most old and important archetype for social media such as a forum, its main features and functionality, web deployment, and most important the base modeling and decisions made for it

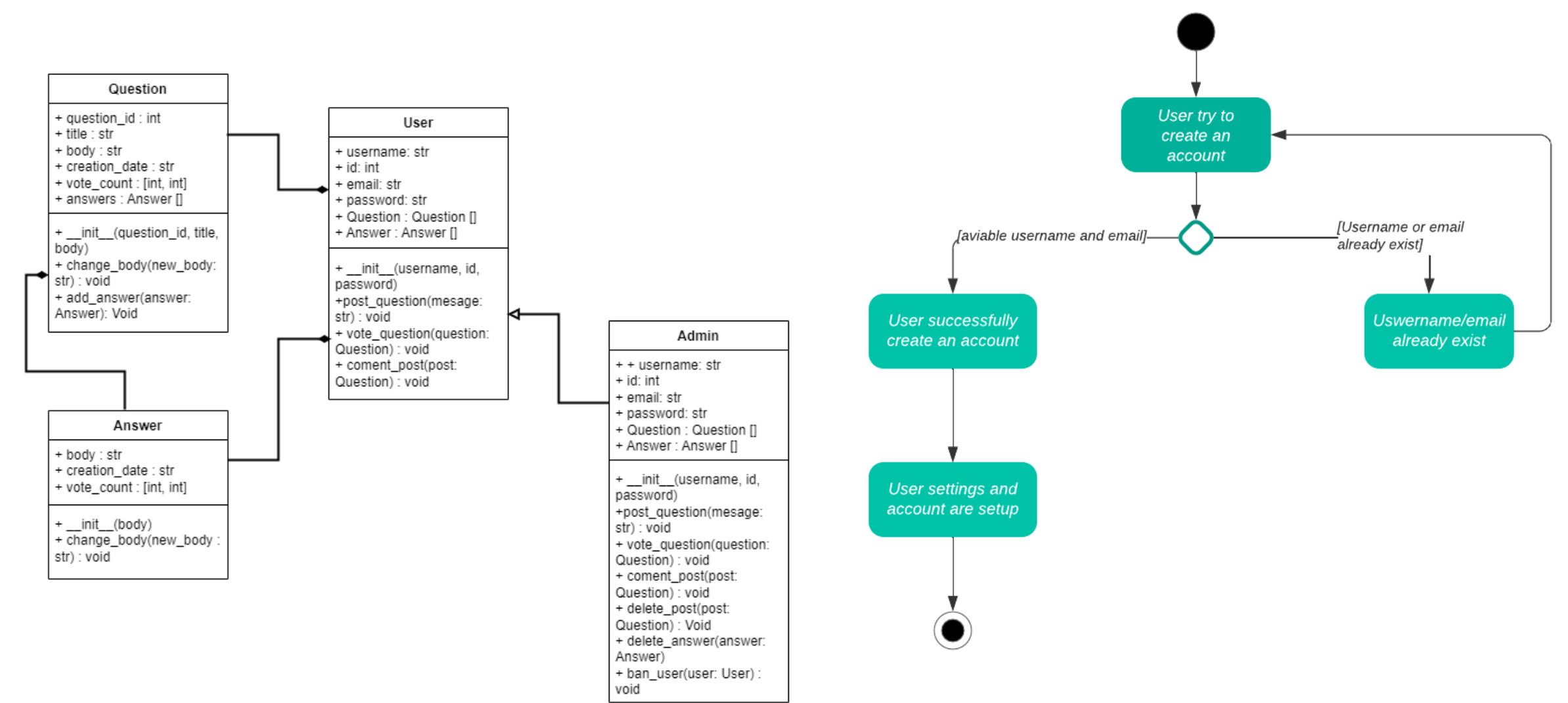
## Introduction

- In this digital age, question-and-answer platforms have become crucial. They offer fast and precise responses to various inquiries and embrace individuals to share their expertise with a larger community. These platforms promote learning, troubleshooting, and knowledge dissemination, rendering them an invaluable asset for those in search of information. This project aims to highlight the significance of design patterns in software engineering. By systematically applying these patterns, we aim to address common challenges in software development, such as code reuse, flexibility, and clarity. The backend of our Q and A forum is designed to handle various functionalities, including user authentication, question and answer management, and dynamic content updates, all while maintaining high performance and reliability.
- The app idea was mainly inspired by Reddit so in this class project we will try to get the best of the inspiration source

## Methods And materials

- In the methods and materials we aimed to desing using different planing that you will find on the repository linked in this poster and the paper draft in there, such as user stories class diagram deployment diagram and more,

This project made using python and different other tools such as fast api to help the web service and docker to help deploy the project is aimed to be an example on the pure application of software desing patterns and as such is heavily focused on the back-end functionality.



## Conclutions and tools outlook

- Our project focuses on developing the backend of a Question and Answer forum using software design patterns. to create a robust, scalable, and maintainable system. Using Python with for development, SQLAlchemy for database management, and FastAPI for real-time communication, our approach ensures a modular and efficient architecture, enhancing user experience and system reliability.



## KEY REFERENCES

- [1] [1] C. A. Sierra (2024, March 19). Software Modeling [Online]. Available: <https://github.com/EngAndres/ud-public/tree/main/courses/software-Modeling>

## ACKNOWLEDGEMENT AND PARTNERS



## MORE INFORMATION

### Software Modeling

jpmosqueram@udistrital.edu.co joalar-cons@udistrital.edu.co

<https://github.com/JuanMosqueraUD/Software-desing-project.git>