

Online School System

Software Design Specification

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Introduction :

This design will detail the implementation of the requirements for the Online School system. It contains specific information about the expected input, output, classes, and functions. The interaction between the classes to meet the desired requirements are outlined in detailed figures at the end of the document. This document contains different sections to describe the overall working procedure to be maintained throughout the course of development. The main purpose of this system is to build an online school system where students can study online. The software design document will demonstrate how the design will accomplish the functional and non- functional requirements captured in the software requirement specification.

Document Conventions :

This document uses the following conventions -

Class diagram
ER diagram

Description of Design Components:

Django : <https://docs.djangoproject.com/en/3.2/ref/databases/>
Android : <https://www.android.com/>
HTML & CSS : <https://www.w3schools.com/>

High-Level Component Design:

Student component :

This one is the key component of the Online School system. This is where the student join class option is implemented. This includes the edit profile , view profile, view class, reading material , view classmates and faculty functions.

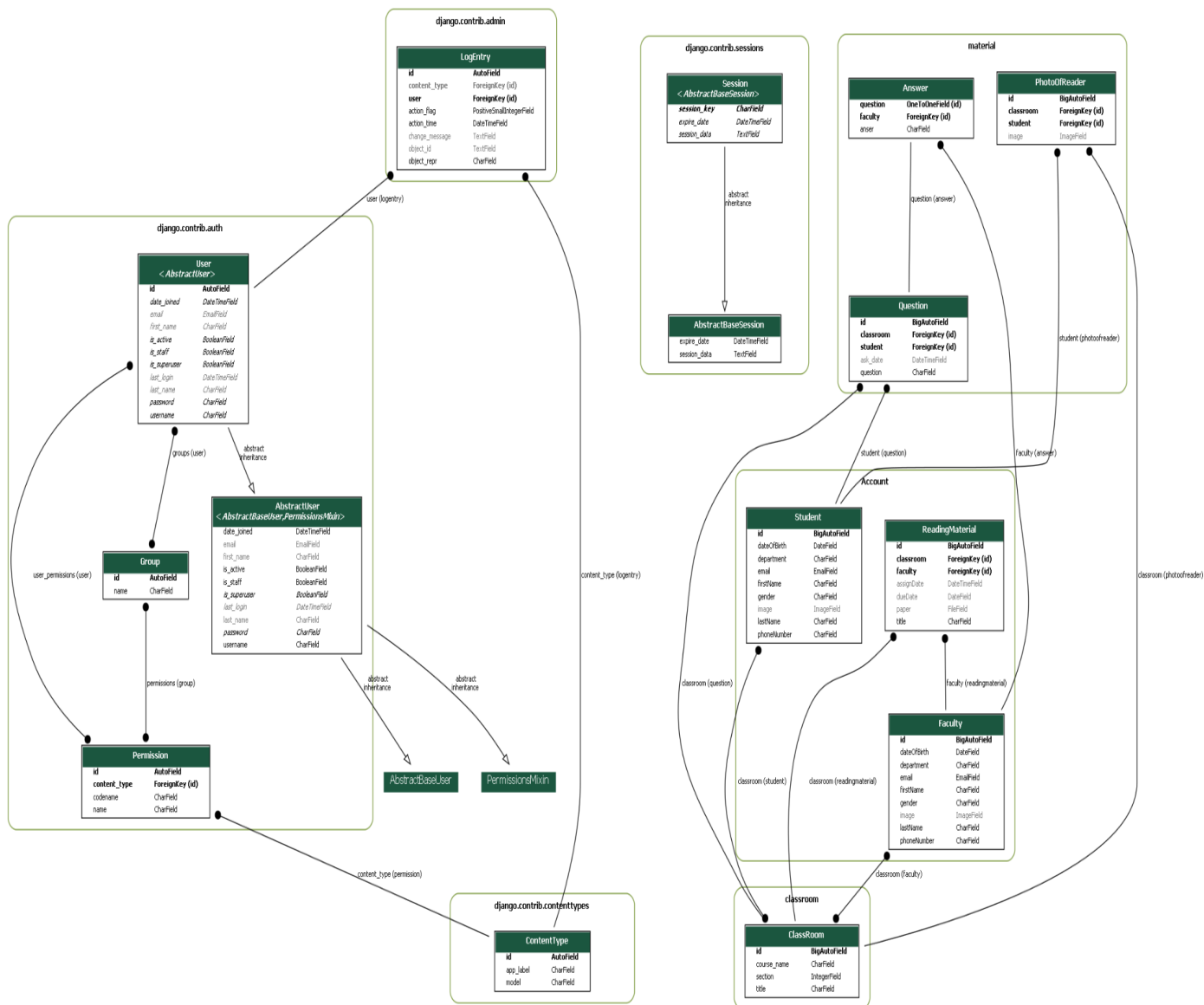
Faculty component :

This one is the key component of the Online School system. This is where the faculty create class option is implemented. This includes the edit profile , view profile, view class, reading material, view students functions.

User management component :

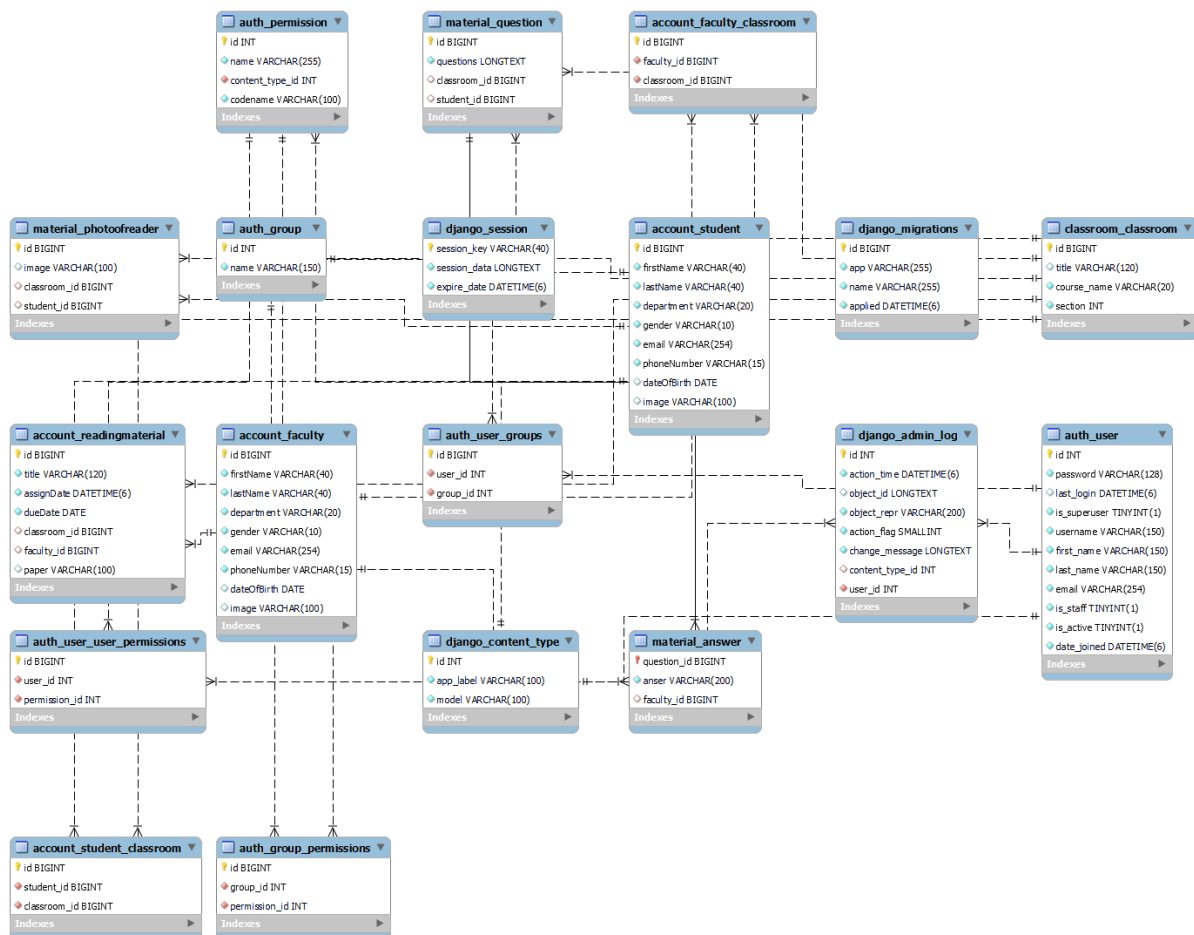
This part handles the user management activities such as creating new user account , log in.

Class Diagram :



Class diagram

Database Design:



Database ER Diagram

Implementation plan :

As for implementation classes and databases will be designed according to the diagrams provided above. At first the basic user authentication and UI design will be designed for the web application, after that for mobile applications. We will work with the database after that and connecting the same database with both platforms will be dealt with.

