CourseHub

By David Liao, Richard Gandolfo, Rifat Noor, Ting Yang

Basic Architecture
Web Application

```
Front-End          →    Back-End          →    Relational
(HTML/CSS)              (Django                 Database
                        Framework)              (MySQL or
                                                PostgreSQL
                        Back-End
                        (Apache HTTP
                        Server using
                        mod_wsgi)
```
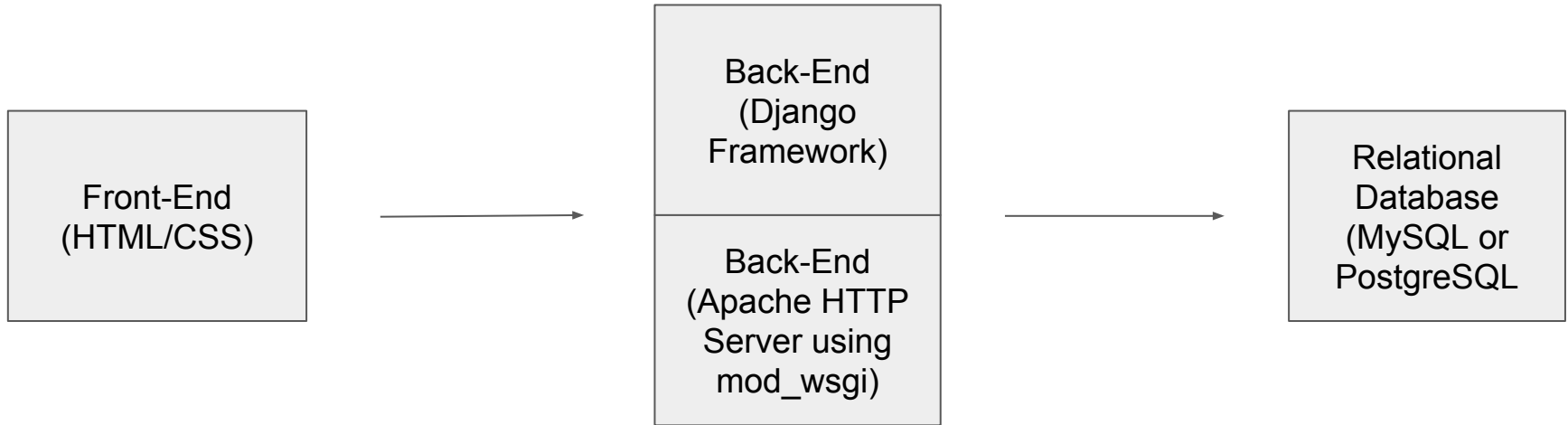
Workflow Design

Login/Sign Up → **User Homepage** → **Classroom** → **Create Post**

| Login/Sign Up	User Homepage	Classroom	Create Post
1-Sign in/Sign up with username/password 2-Return login result 3-Page for sign up/forgot password	1-Load all class forums user is enrolled in from RDS 2-Search for class forums for user to join, which will be fetched from RDS 3-Load all user statistics from RDS	1-Fetch all posts from RDS. 2-Enable user to join the classroom, adding them to the database 3-View specific post, fetch all comments in that post. 4-Comment on specific post	1-User can create own post for forum 2-Post is added to RDS, once validated

Workflow Diagram
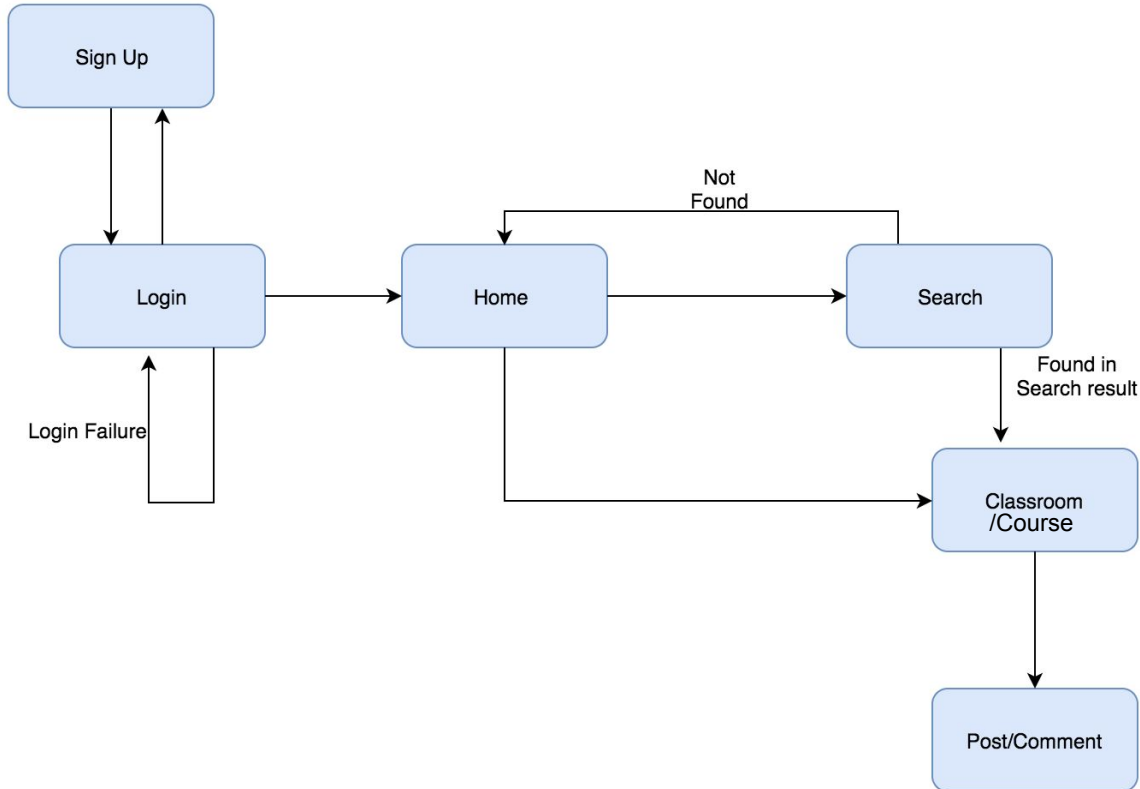
Login

User name:	
Password:	

Login

List of courses:
CSCI 499

Subject

CEDC - Curriculum & Teaching
CEDF - Educational Foundations
CHEM - Chemistry
CHIN - Chinese
CHND - Chinese Education
CLA - Classical Cul & Arch
COCO - Core Counseling
COMPL - Comparative Literature
COMSC - Health Sci Comm Sci
COUNM - Educ Found Mental Hlth
COUNR - Educ found Rehab Coun
COUNS - Educ Found Counseling
CSCI - Computer Science
CUNBA - CUNY B.A.
DAN - Dance
DANED - Dance Education
DANEP - Dance Education NLA
ECC - Early Child Ed
ECF - Educational Foundations
ECO - Economics

List of courses within the selected subject

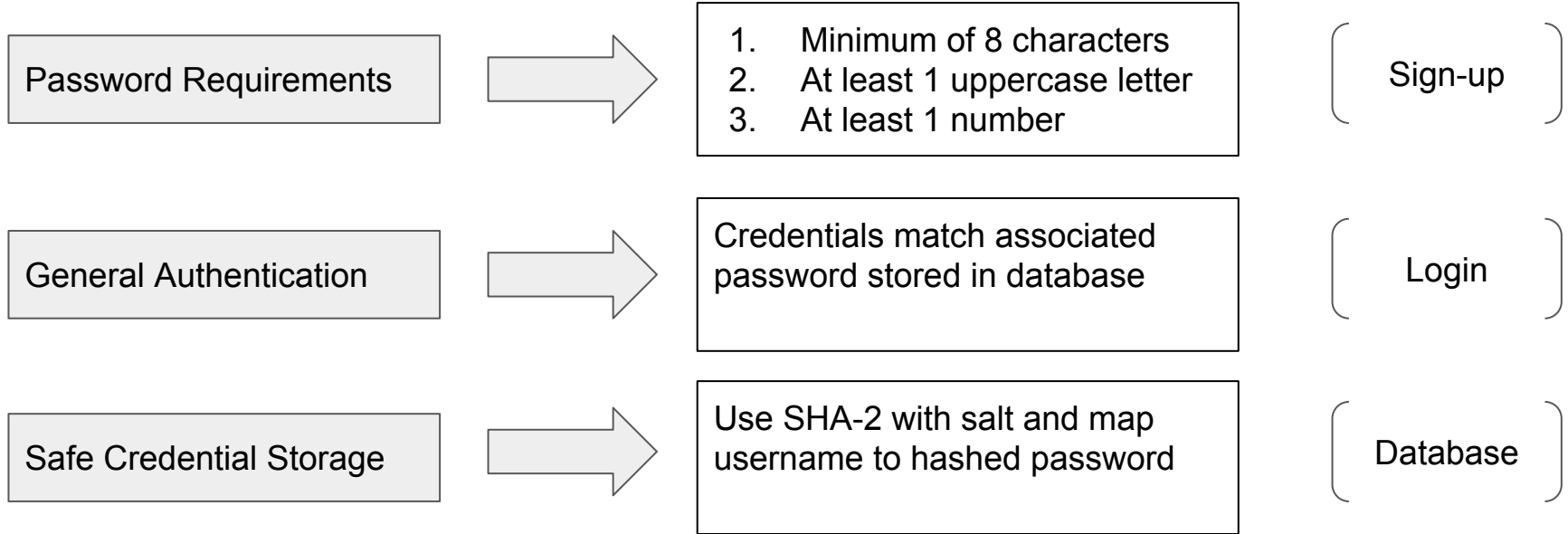7

Course

List of questions related to course

Title

Question

Comments/Answers

Securing Information

Password Requirements ➡️
1. Minimum of 8 characters
2. At least 1 uppercase letter
3. At least 1 number

Sign-up

General Authentication ➡️
Credentials match associated password stored in database

Login

Safe Credential Storage ➡️
Use SHA-2 with salt and map username to hashed password

Database

Username	Password	Hashed Password
Student_1	abc123	SHA-2(abc123zP@6!X)