

Govt. Degree College Ganderbal

Project Name: OnlineClassroom

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Introduction

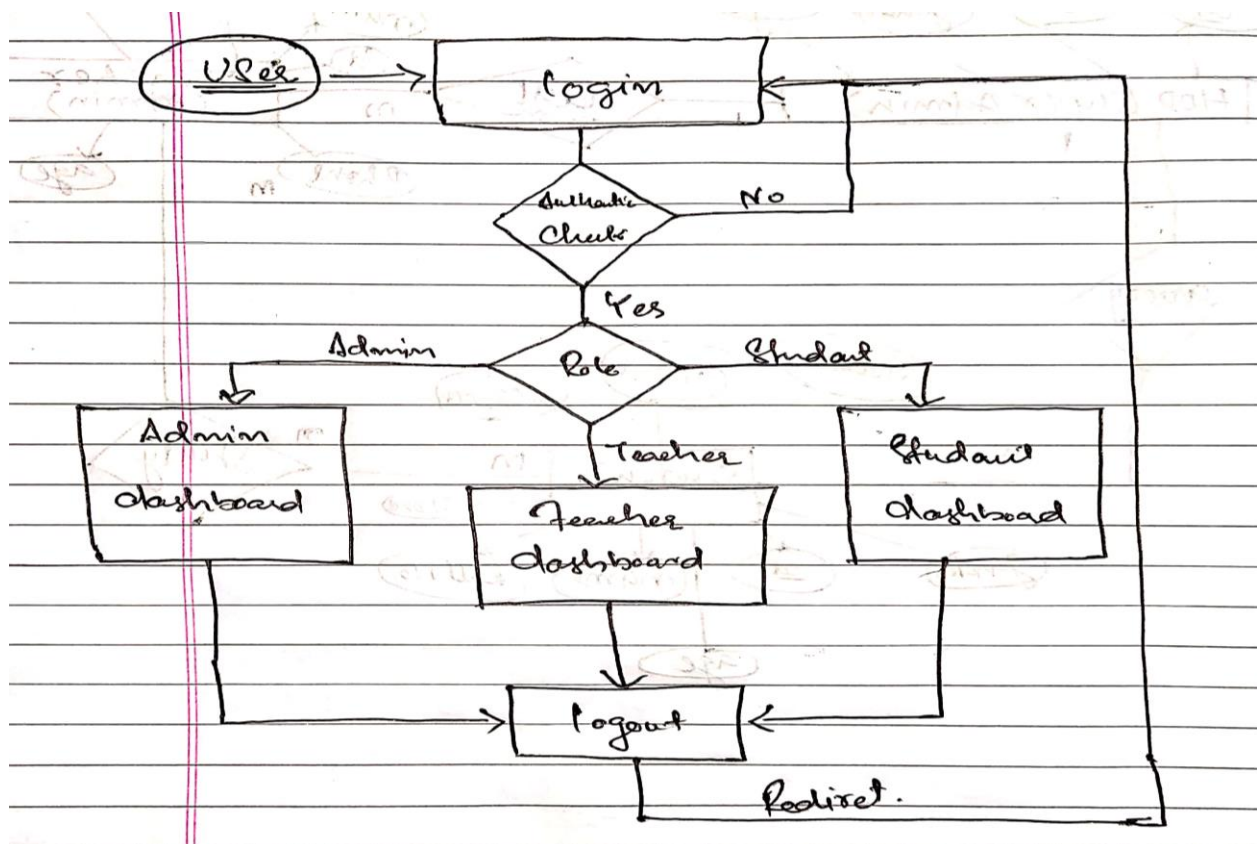
OnlineClassroom is a platform for any educational institution that aims to simplify creating, distributing, and grading assignments as well as study materials in a paperless way. **OnlineClassroom** is a free web application designed to help students and teachers communicate, collaborate, organize manage assignments, go paperless, and much more.

Objective

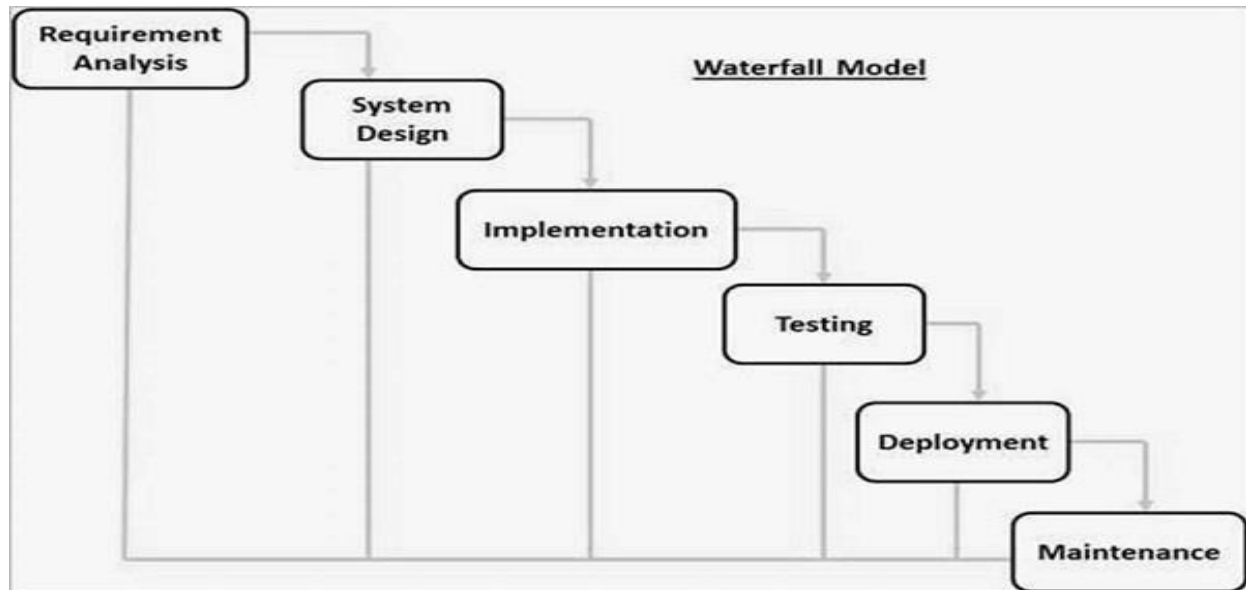
As a name suggests "**OnlineClassroom**" is a web application developed for managing assignments and study materials in paperless way via network.

Note: - In Future we can add online examination system, so that students can give exam in seamless way.

DATA FLOW DIAGARAM



Methodology Development Model



The sequential phases in Waterfall model are –

Requirement Gathering and analysis – All possible requirements of the system to be developed are captured in this phase and documented in a requirement specification document.

- **System Design** – The requirement specifications from first phase are studied in this phase and the system design is prepared. This system design helps in specifying hardware and system requirements and helps in defining the overall system architecture.
- **Implementation** – With inputs from the system design, the system is first developed in small programs called units, which are integrated in the next phase. Each unit is developed and tested for its functionality, which is referred to as Unit Testing.
- **Integration and Testing** – All the units developed in the implementation phase are integrated into a system after testing of each unit. Post integration the entire system is tested for any faults and failures.
- **Deployment of system** – Once the functional and non-functional testing is done; the product is deployed in the customer environment or released into the market.
- **Maintenance** – There are some issues which come up in the client environment. To fix those issues, patches are released. Also, to enhance the product some better versions are released. Maintenance is done to deliver these changes in the customer environment.

Hardware and Software Requirement

Hardware

Server: Any server hardware configuration.

Client: Any hardware configuration that supports network capability

Software

- Server: Must have Server application like apache, PHP Compiler, Database software like MySQL
- Client: Any browser like chrome, firefox, safari, etc.

Database Requirement

- As we are using PHP language most suitable DBMS is MySQL

Programming Languages

- Backend
 - Php
- Frontend
 - HTML 5
 - CSS
 - JavaScript

Installation Steps (Configuration)

1. Download and Unzip file on your local system.
2. Put this file inside xampp/htdocs/.
3. Database Configuration

Open phpMyAdmin

Create Database "db_onlineclassroom".

Import database "db_onlineclassroom"

4. Open your browser and hit this url: <http://localhost/onlineclassroom/>

Scope of Online Classroom

It can be used in any educational institution.

Existing Plan

Students are collecting unauthentic and improper study material from different sources which leads to poor performance in any examination. Our system will provide them authentic as well as proper/correct material from authorized sources only.

These systems have been already developed by various big organization like google but we, as a learner and as an academic project we want to create our own from scratch (software part only).

Existing systems which are available for this purpose are: Google Classroom, etc.

Current Problem

Students are collecting study material from various sources and sometimes those are not valid but using this system we can provide authentic study material from authorized users.

Security

In our system all sensitive data/information will be encrypted and access will be also restricted to authorized user only. So that any attempt to get unauthorized access will be rejected and our data will be secured from illegal access.

System Design

It is the phase that bridges the gap between problem domain and the existing system in a manageable way. This phase focuses on the solution domain, i.e. "how to implement?"

It is the phase where the SRS document is converted into a format that can be implemented and decides how the system will operate.

In this phase, the complex activity of system development is divided into several smaller sub-activities, which coordinate with each other to achieve the main objective of system development.

In our System Design,

Various Modules are ~~are~~ ~~are~~ System Design

1) Authentication Module

→ Verify Authorization & Authentication of user

2) Admin Module

→ function

→ Profile update

→ Add / update / delete Teachers

→ Add / update / delete Students

→ " " " Material / assignment.

3) Teachers Module

→ Profile

→ Add / update / delete Students

→ Add / " " Study Material / assignment

→ Assessment of assignment.

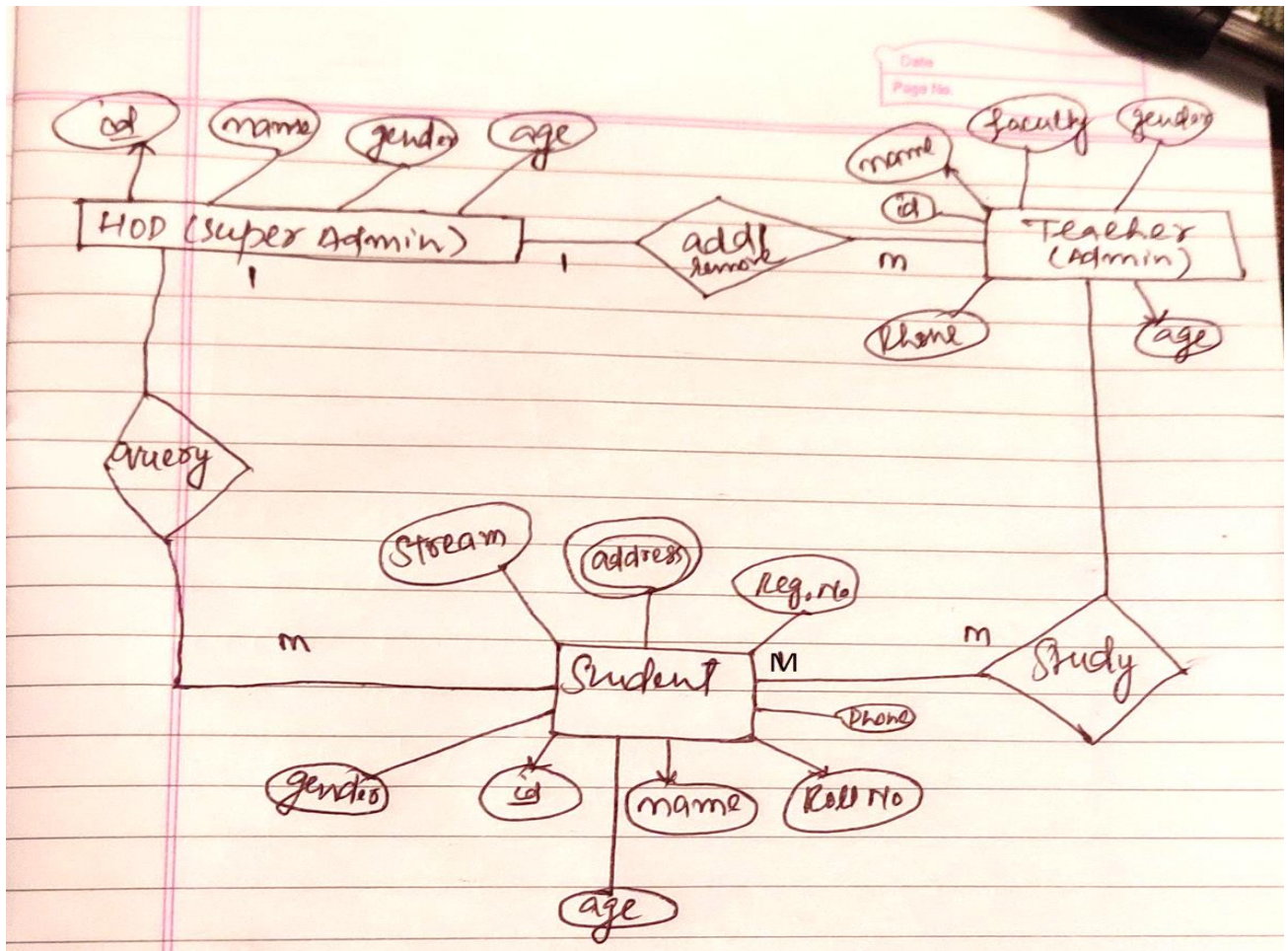
4) Student Module

→ limited profile updation

→ Check & view study material

→ Submit assignment.

ER-Diagram



Conclusion

We can add new features very soon.

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