

COP 290

Complaints Portal

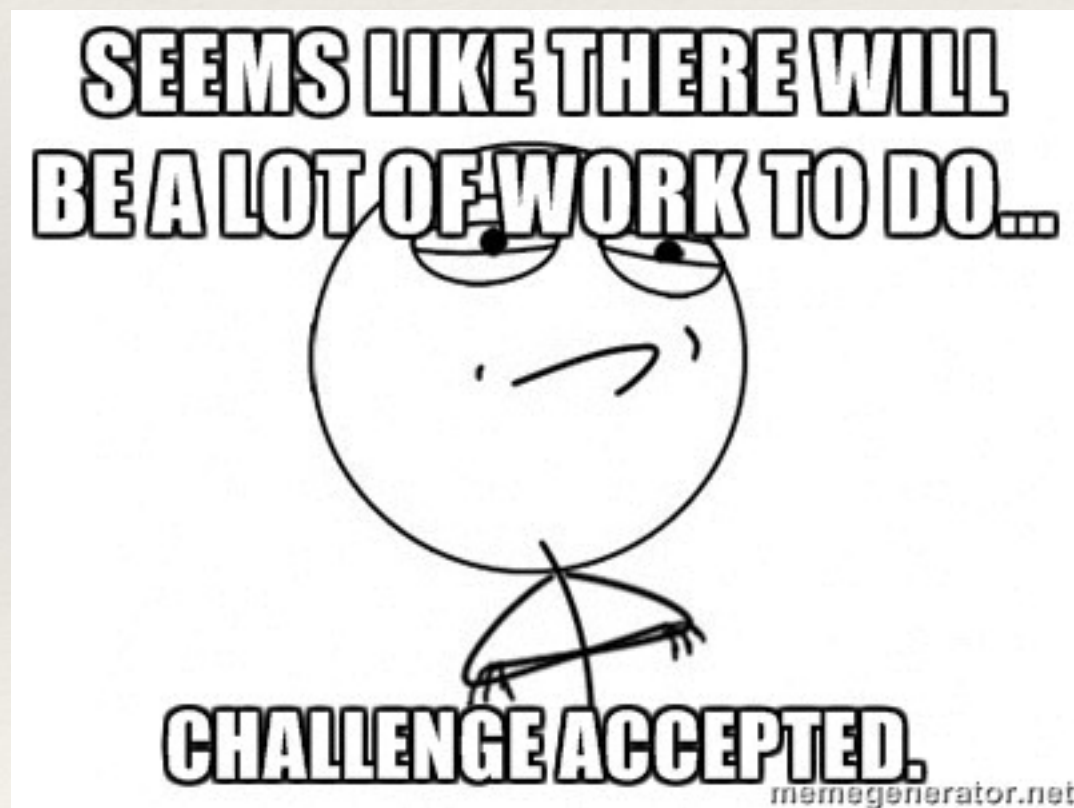
Session- Assignment 2

What it is about?

A complaint portal where you can post complaints
&
the concerned authority gets notified.

What to deliver?

Everything!



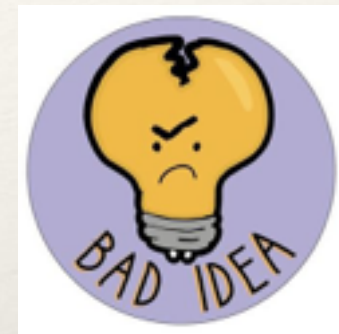
Deliverables

- ❖ **Design Documentation**
- ❖ **Server:** Any of your favourite languages PHP, Node, Ruby, Python etc.
- ❖ **Client:** Android
- ❖ An end product to IIT Delhi

How to begin?



Start coding



Think, Discuss and Design



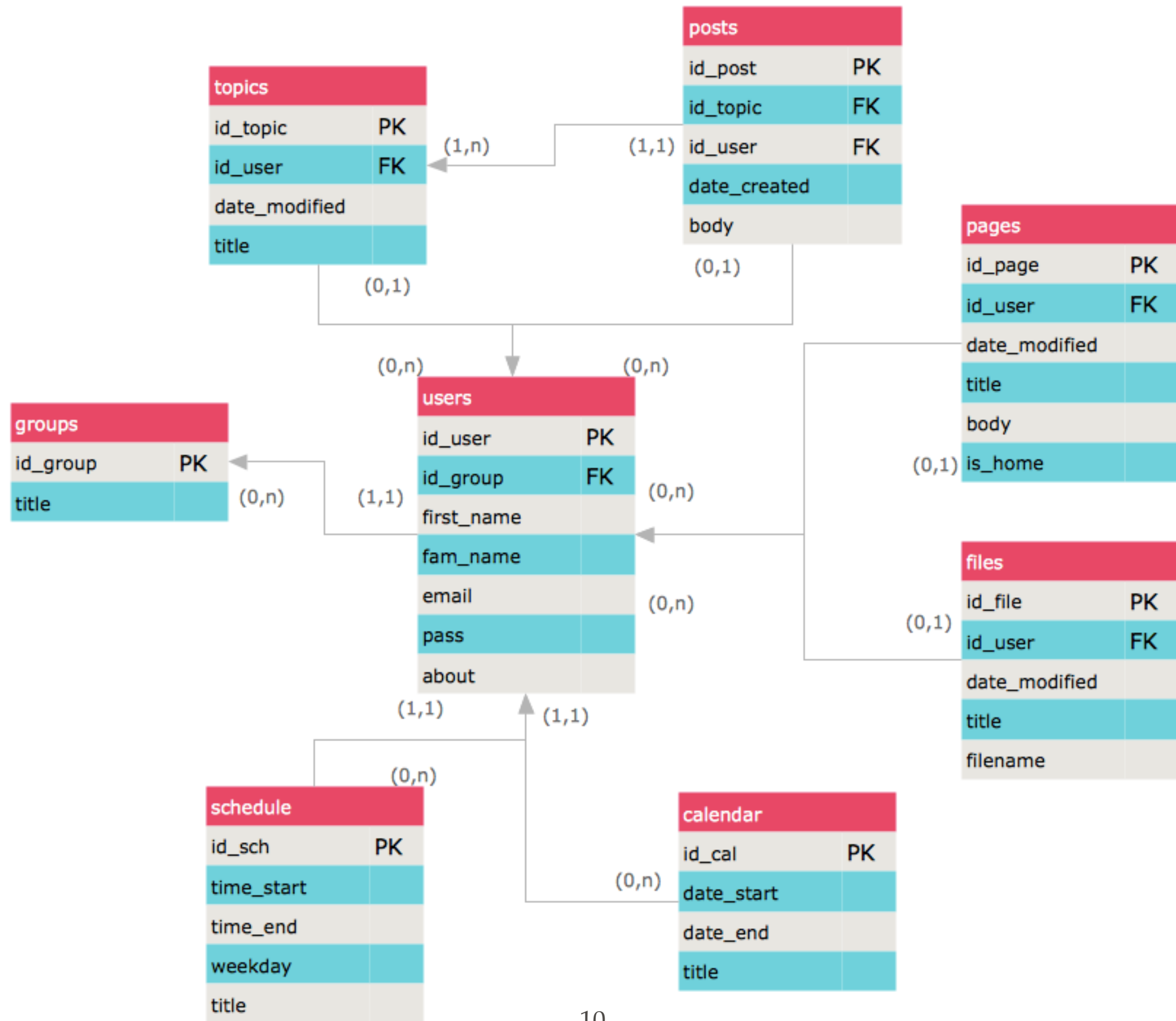
Steps

- ❖ Think and Discuss
- ❖ **Work Flow**
- ❖ **ERD** - Entity Relationship Diagram
- ❖ **API**
- ❖ **Event Flow**
- ❖ Distribute
- ❖ Technologies
- ❖ Code
- ❖ Debug

Work Flow

ERD

- ❖ Databases with fields
- ❖ Primary Keys
- ❖ Foreign Keys
- ❖ Field Type and Constraints
- ❖ Indexes
- ❖ **Tools:** Personal favorite <https://www.draw.io/>



API



API

- ❖ Endpoints
- ❖ Authentication (Session or Cookie / Token)
- ❖ Request Type (GET, POST, PUT, DELETE etc.)
- ❖ Response

Event Flow

- ❖ User application to API
- ❖ API to Server and Database
- ❖ Server(or Database) to API.
- ❖ API to User application.



Design Document

- ❖ Introduction
- ❖ System Interface- Complaints page, resolve and other pages.
- ❖ Work Flow
- ❖ ERD
- ❖ Event Flow
- ❖ Features
- ❖ **Deadline:** March 10.

Technologies

- ❖ Session and Cookie
- ❖ GCM
- ❖ Databases(Local and Server)
- ❖ Trello- Task distribution and completion
- ❖ Git - Bitbucket or Gitlab(Private repositories)
- ❖ Piazza

Some Features

- ❖ Complaints:
 - Institute level
 - Hostel level
 - Individual
- ❖ Roles
 - Admin
 - Categorised
 - User
- ❖ Add Complaint
- ❖ Up-vote, Down-vote
- ❖ Status: Resolve, Pending
- ❖ Search, Tags, Sort
- ❖ Add image
- ❖ Notify

Motivation

- ❖ Work as a project later.
- ❖ Integrate it with the IIT-D system.
- ❖ Design Credits!



“If you can't feed a team with two pizzas, it's too large”

–Jeff Bezos

Thanks!