

DEPARTMENT MANAGEMENT SYSTEM

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INTRODUCTION

- To enhance the functionalities of the routine works of the department, we propose a web-based management system.
- Details are stored in an efficient manner to handle the students and staffs records effectively.
- Helps to monitor the activities that take place in the department.
- Making the department data management system more efficient.

FEATURES

- Student/Staff profile
- Student data management
- Student & class performance analysis
- Provide study Material

IMPLEMENTATION

The web application is developing using the python Django framework and NoSql, and the analysis is with machine learning.

MODULES

- ADMIN
- HOD
- STAFF
- STUDENT

TABLES

student

name INT

branch VARCHAR(45)

reg_no INT

aadharno INT

sign VARCHAR(45)

address VARCHAR(45)

phone INT

email VARCHAR(45)

sex VARCHAR(45)

dob DATE

nationality VARCHAR(45)

religion VARCHAR(45)

caste VARCHAR(45)

native_place VARCHAR(45)

blood_grp VARCHAR(45)

hobbies VARCHAR(45)

photo VARCHAR(45)

Indexes

admission_details

reg_no INT

ad_number INT

date_of_admission DATE

semester_to_which_admitted INT

admission_quota VARCHAR(45)

intitution_where_studied VARCHAR(45)

documents VARCHAR(45)

keam_rollno INT

keam_rank INT

category VARCHAR(45)

allotted_category VARCHAR(45)

Indexes

parents_details

reg_no INT

fathers_name VARCHAR(45)

fathers_occupation VARCHAR(45)

mothers_name VARCHAR(45)

mothers_occupation VARCHAR(45)

address VARCHAR(45)

residential_address VARCHAR(45)

official_address VARCHAR(45)

email_id VARCHAR(45)

Indexes

siblings_details

reg_no INT

name VARCHAR(45)

qualification VARCHAR(45)

occupation VARCHAR(45)

address VARCHAR(45)

Indexes

local_guardian

reg_no INT

name VARCHAR(45)

address VARCHAR(45)

relationship VARCHAR(45)

phone INT

Indexes

hostel_details

reg_no INT

year INT

address VARCHAR(45)

reason_for_leaving VARCHAR(45)

hostel_detailscol VARCHAR(45)

Indexes

qualifications

reg_no INT

name_of_exam_passed INT

name_of_institution VARCHAR(45)

month_and_year_of_passing VARCHAR(45)

mark INT

no_of_chances INT

documents VARCHAR(45)

qualificationscol VARCHAR(45)

Indexes

achievements

reg_no INT

certification VARCHAR(45)

level VARCHAR(45)

semester INT

year INT

documents VARCHAR(45)

Indexes

scholarship_details

reg_no INT

name_of_scholarship VARCHAR(45)

semester INT

year INT

status VARCHAR(45)

Indexes

activity_points
reg_no INT
name_of_activity VARCHAR(50)
semester INT
head_of_activity VARCHAR(45)
role_place VARCHAR(45)
points_obtained VARCHAR(45)
remarks VARCHAR(45)
Indexes

medical_leave
reg_no INT
period INT
semester INT
remarks VARCHAR(45)
Indexes

details_of_papers/books/articles_published
reg_no INT
title INT
journal VARCHAR(45)
doi VARCHAR(45)
Indexes

project_details
reg_no INT
semester INT
topic VARCHAR(45)
team_members VARCHAR(45)
abstract VARCHAR(45)
Indexes

technical_events
reg_no INT
date INT
semester VARCHAR(45)
remarks VARCHAR(45)
Indexes

sports_events
reg_no INT
date INT
semester VARCHAR(45)
remarks VARCHAR(45)
Indexes

arts_events
reg_no INT
date INT
semester VARCHAR(45)
remarks VARCHAR(45)
Indexes

co-curricular_activities
reg_no INT
date DATE
semester VARCHAR(45)
remarks VARCHAR(45)
Indexes

extra-curricular_activities
reg_no INT
date INT
semester VARCHAR(45)
remarks VARCHAR(45)
Indexes

placement_training
reg_no INT
date INT
semester VARCHAR(45)
remarks VARCHAR(45)
Indexes

placements_achieved
reg_no INT
date INT
semester INT
company VARCHAR(45)
remarks VARCHAR(45)
Indexes

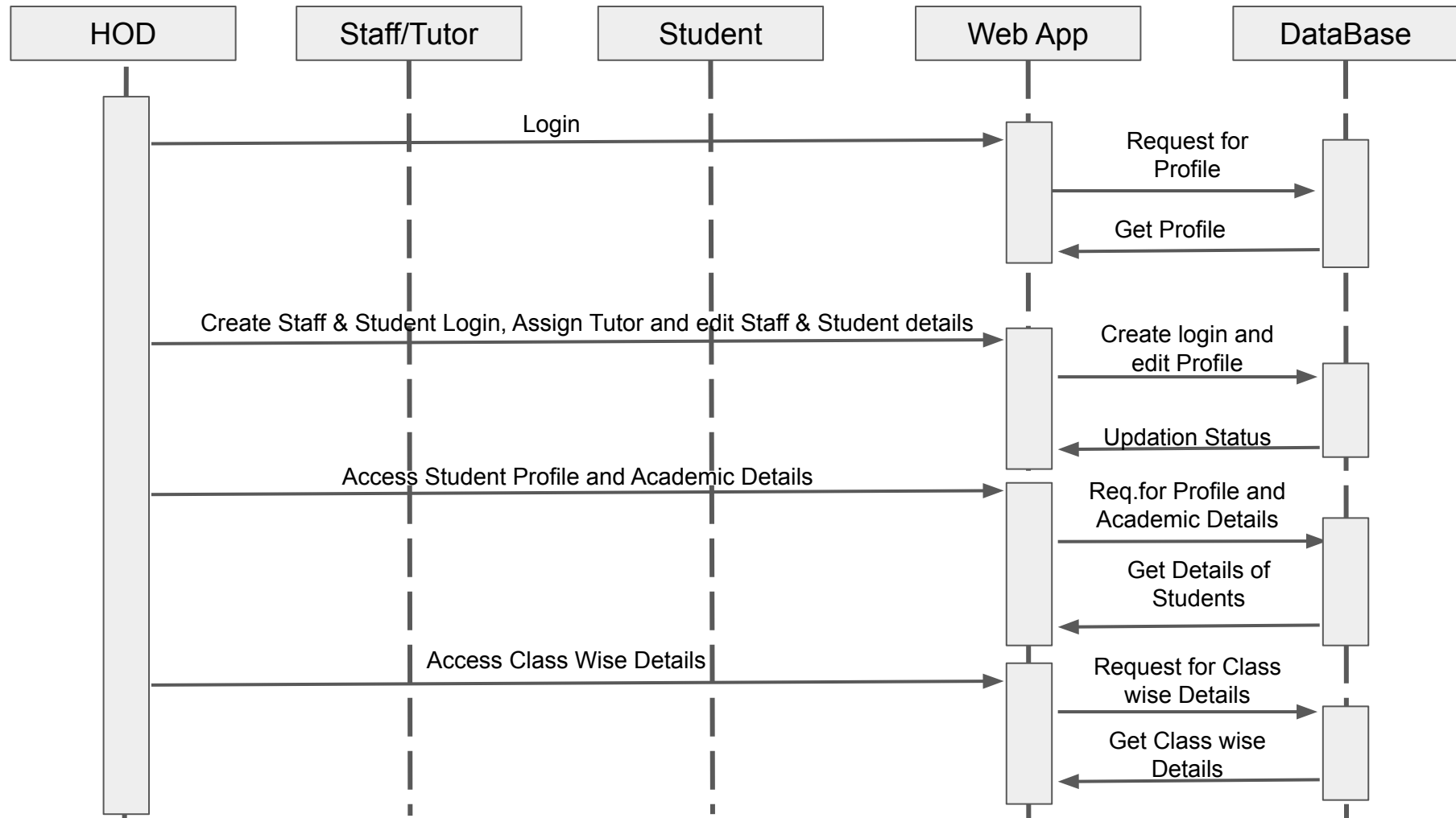
requests_recei...
reg_no INT
date INT
semester VARCHAR(45)
remarks VARCHAR(45)
Indexes

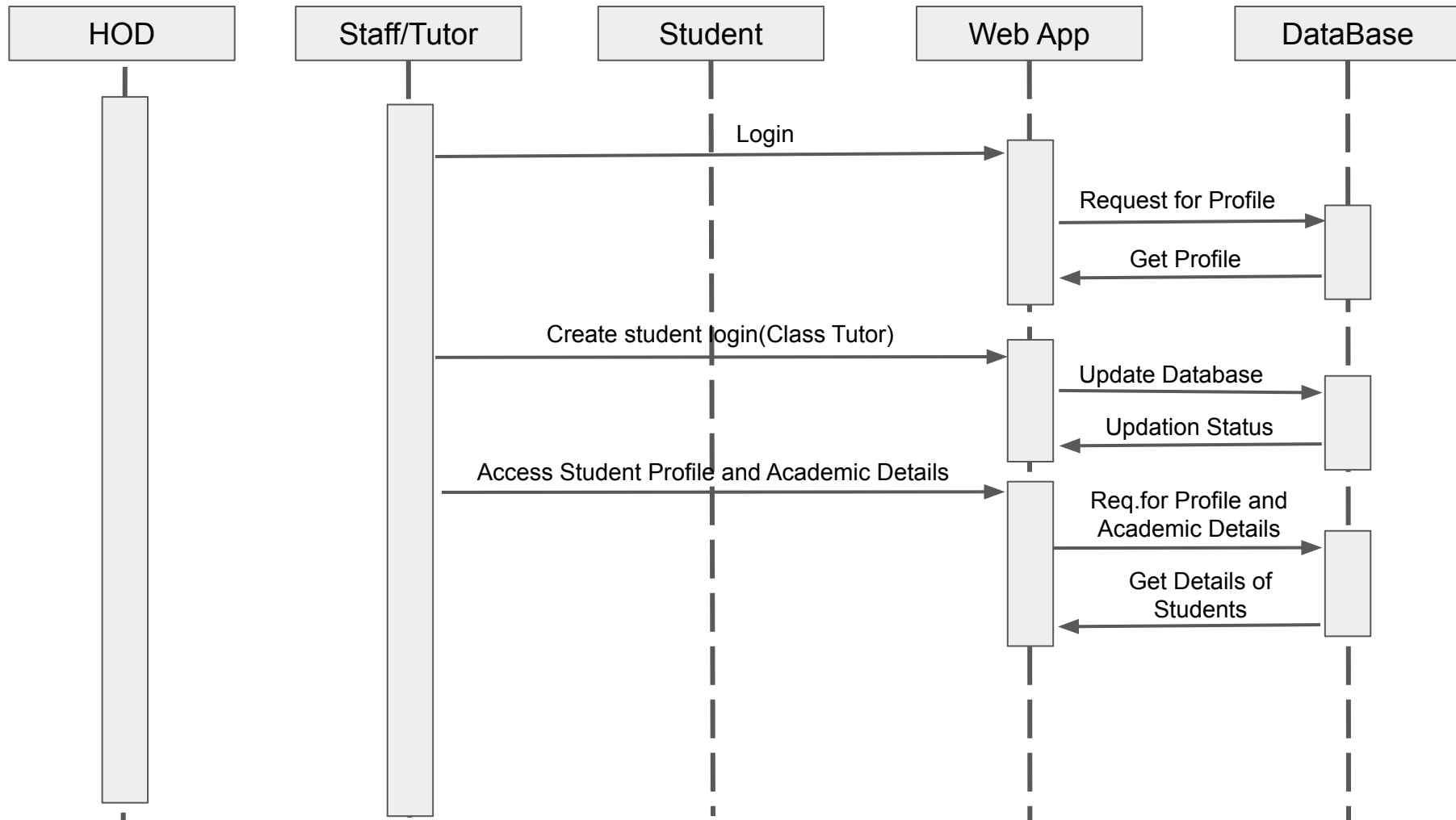
mentoring_details
reg_no INT
date DATE
semester VARCHAR(45)
remarks VARCHAR(45)
Indexes

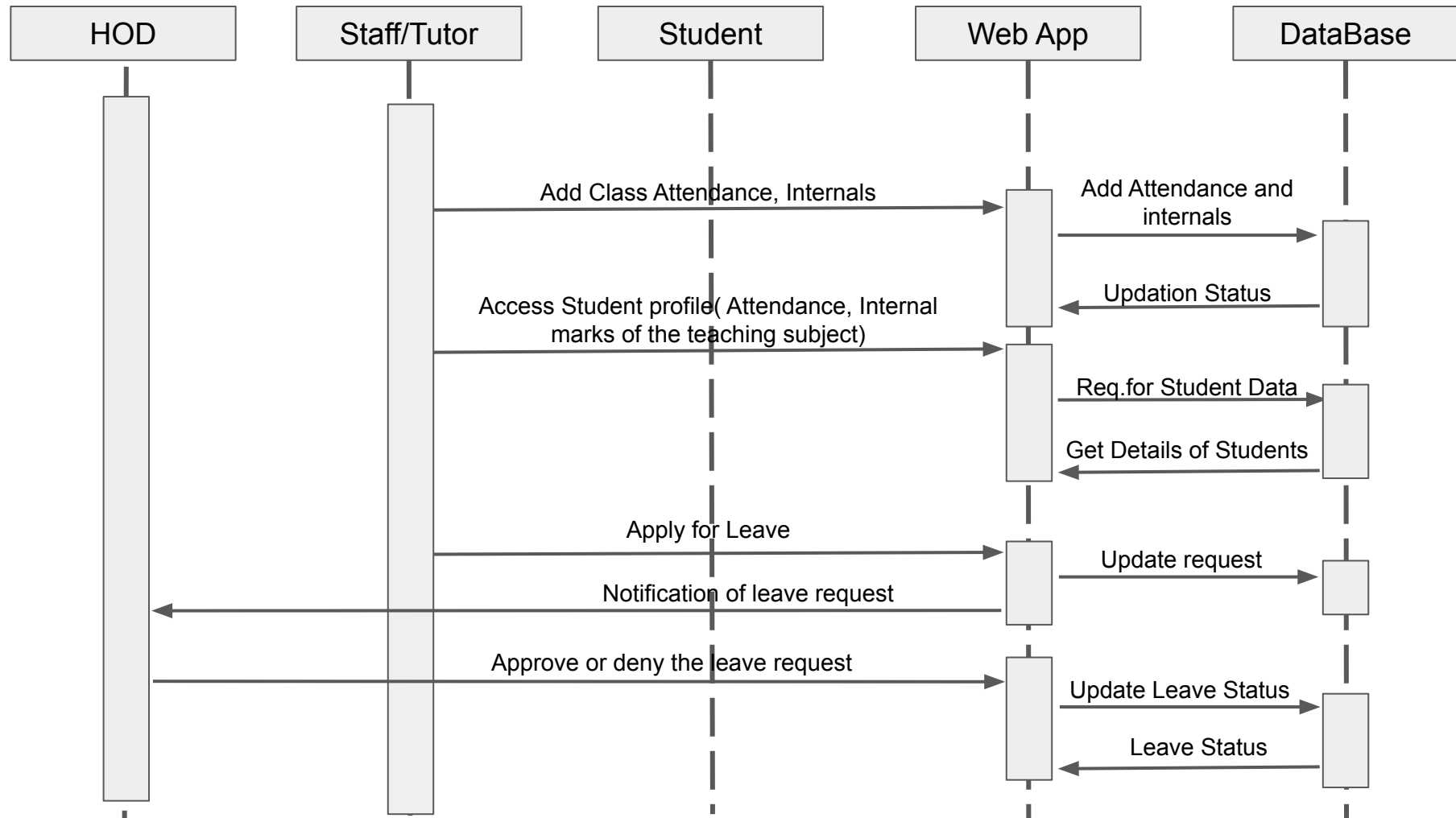
any_other_remarks
reg_no INT
date INT
semester VARCHAR(45)
remarks VARCHAR(45)
reg_no VARCHAR(45)
Indexes

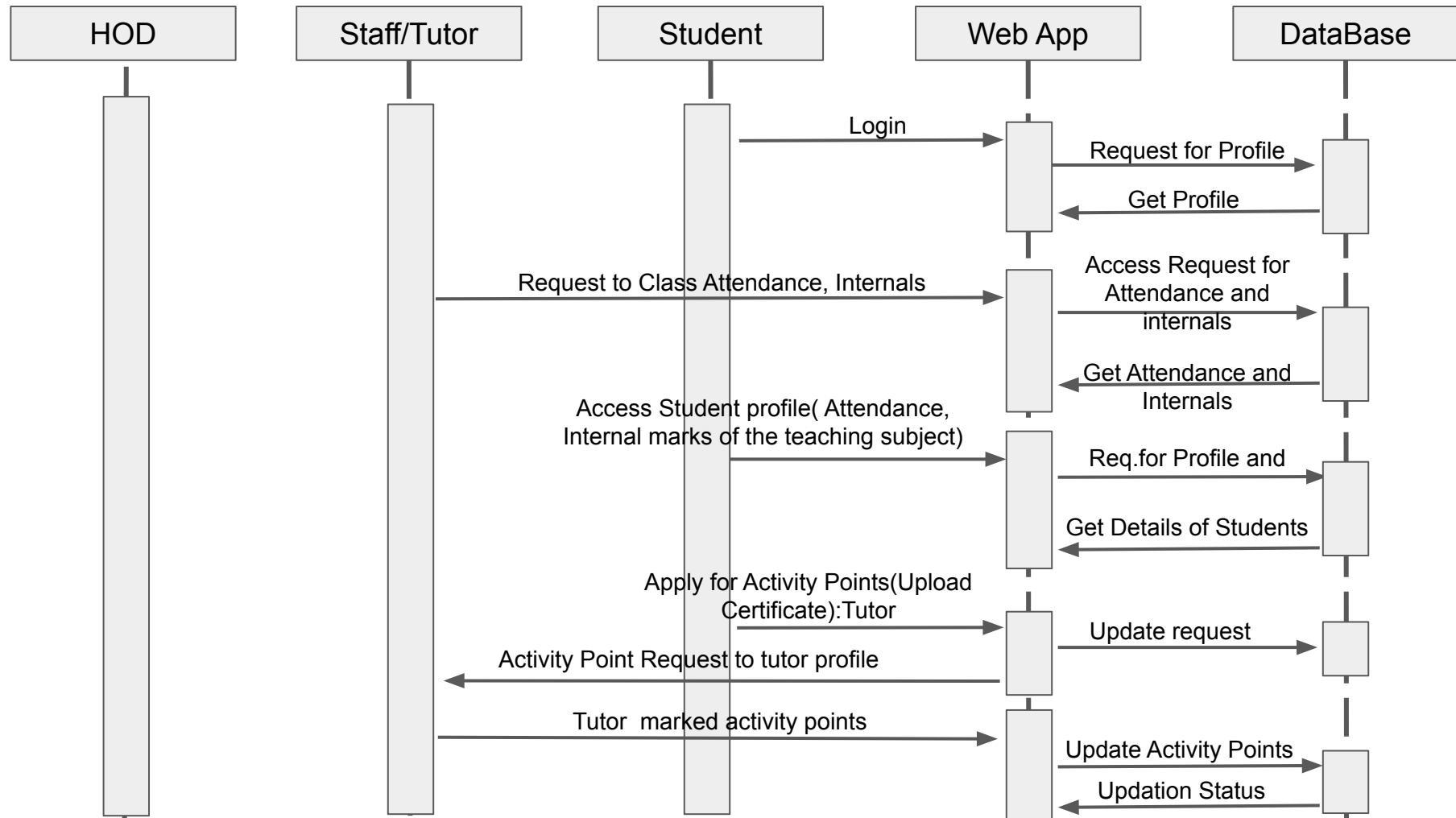
staff	
name	VARCHAR(50)
faculty_unique_id	VARCHAR(45)
gender	VARCHAR(45)
dob	VARCHAR(45)
aadhaar_no	VARCHAR(45)
caste	VARCHAR(45)
religion	VARCHAR(45)
category	VARCHAR(45)
pan	VARCHAR(45)
date_of_joining	VARCHAR(45)
aicte_unique_id	VARCHAR(45)
appoinyment_type	VARCHAR(45)
cadre	VARCHAR(45)
designation	VARCHAR(45)
specialisation	VARCHAR(45)
dept_of_program	VARCHAR(45)
examiner_institution	VARCHAR(45)
area_of_research	VARCHAR(45)
Indexes	

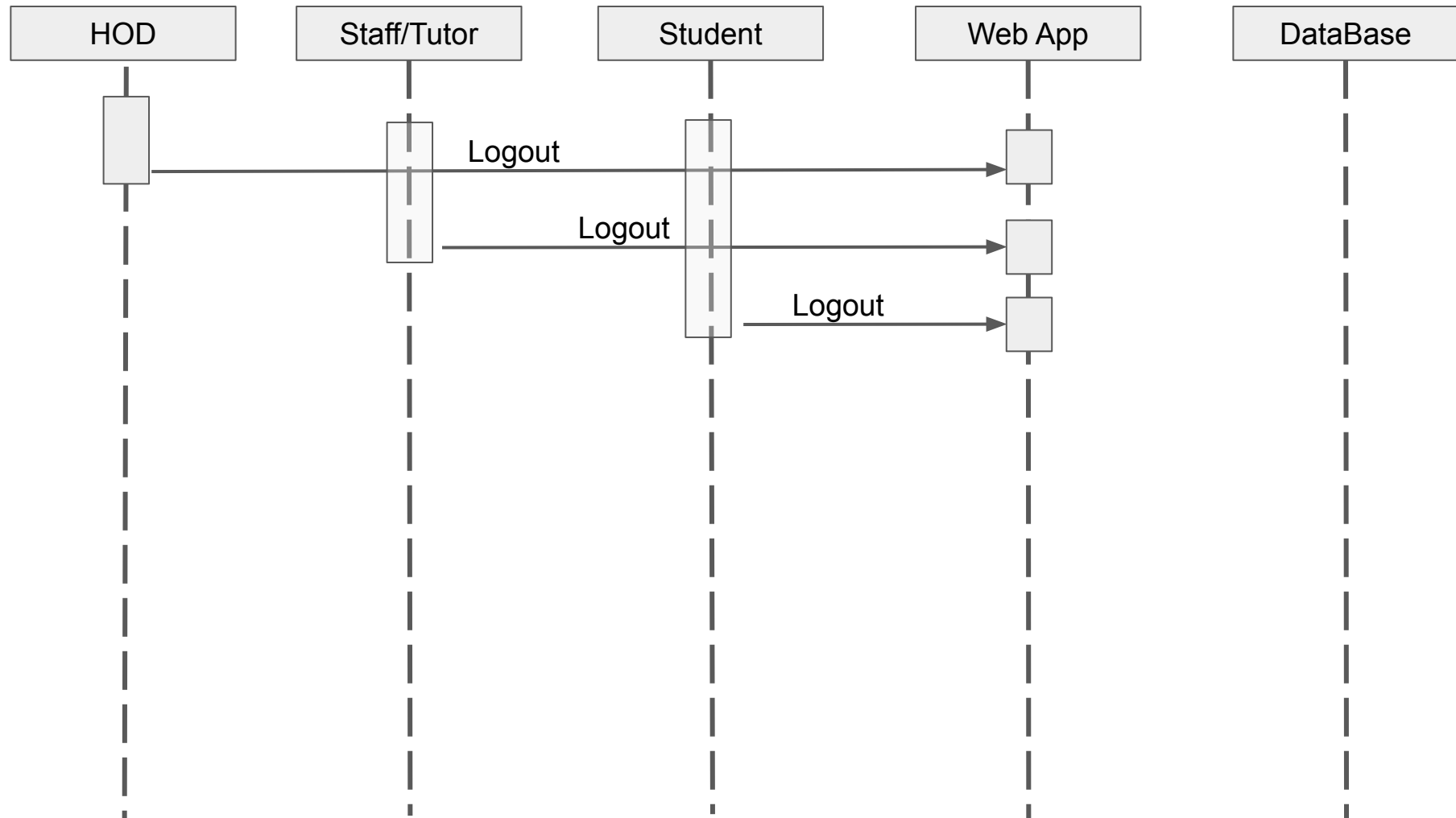
SEQUENCE DIAGRAM











BENEFITS

- Effective management of department data.
- A way for students performance analysis.
- Evaluate and improve Class Performance

CONCLUSION

- The overall speedup is considerably higher than the manual work.
- Helps to monitor the marks of the students and analyze their performance.

THANK YOU ...