Department of Computer Science and Engineering

UE17CS355- Web Technologies II Laboratory

PROJECT EVALUATION

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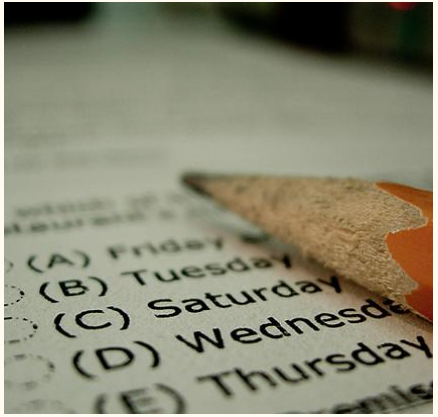
A project to identify the growth of a student along the semester and recommend a score/path to achieve a better score in the End Semester Assessments

Project Description

We have incorporated various techniques and frameworks which have been taught along the semester to create an interactive portal for the students to check their marks over the semester which includes his internal marks and then recommend a score based on his peers and his own marks, to get a better final grade in the End Semester Assessments.



Technologies

- Front-End: Angular JS
- Back-End: Flask
- Techniques:
  - AJAX patterns: Submission Throttling
  - REST Apis for Flask in python
  - SQLite3 database management system
- Intelligent Functionality:
  - User-User Recommendation
  - Examine peers data and his previous performance to recommend a score to get good grades in ESA

Techniques Implemented

AJAX Patterns

Our project consists of a login page where the student can login to his homepage and we have used the concept of submission throttling using AJAX techniques to better the experience of login by using autocomplete where a key press creates an AJAX request and compares the letters on the server side.

REST Api

Our Backend is implemented using Flask in python along with SQLite3. We have implement 8 Api's for the functions of Login, Search for SRN and Prefixes, Registration, Data and Progress reports for two subjects and Index page. The implementation was done using Flask library in python3.

Intelligent Functionality

We use the data present at the backend database of the students of a particular class to recommend to the student where to improve and how much to improve by, given a particular subject that is entered by him. We also allow new users to enter their marks with the subject name and see where he needs to improve his score to get a better grade in his End Semester Assessments. This is a classic User-User Recommendation System where users are recommended ‘items’(scores) based on their peers.

THANK YOU