

Web Technologies-2 Report

UE16CS403

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The goal of this project is to acquire a collection of resources/information, selected by anchor and teachers to be made accessible to students and other teachers for reference. Students can access the resources subject wise to avoid the trouble of gathering them before exams. Teachers can also avoid the extra effort to keep students updated with consistent resources across the classes. Resources can be searched for and used by a large number of students with ease and efficiency. Teachers can use this medium to provide syllabus and pattern too.

Features:

1. Upload documents to course categories available
2. View/Download documents available based on courses
3. View/ Download collection of documents available
4. Choose course based on notes acquired
5. Search for the desired documents

Frameworks Used

Front End : Angular 8

Back End : Flask

AJAX Patterns, COMET and Intelligent Component Implemented

- **Predictive Fetch** to get the list of Documents Available.
- **Long Polling** to update list of Documents for each course.
- **Intelligent Component** : Suggests the subject to study based on the PDF uploaded. It scans a PDF file using Tesseract to extract keywords and uses various Natural Language Processing Metrics (cosine similarity and jaccard similarity) to calculate the similarity of the PDF to courses available. It then classifies the notes as belonging to one of the courses available.