

Web Technologies II Laboratory Project PES University UE17CS355 6th Semester

Project Title : Build an online coding platform

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Project Description

A platform where users can code and improve their coding skills.

Intelligently suggest next question to be solved by user .

Users can automatically solve the suggested question no need to search for questions again.

Each user can submit any number of time he want until he gets correct ans





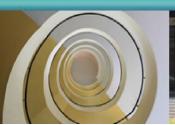




Technologies Used

- HTML
- CSS
- BOOTSTRAP
- JAVASCRIPT
- VUE (used in front end)
- FLASK (used to implement backend)









Techniques Implemented

Predictive Fetch (AJAX Pattern)

To view questions predictive fetch is used, as the user scrolls down next questions are being fetched

Rest API

Rest API is used to communicate between different code

used in following:

Evaluate question Authentication using tokens Question details









Intelligent Functionality

Name: Question Suggestion Module

Method used: Compact Prediction Tree

Input: Series of question user have solved.

Ex: ['array1','Heap1','matrix1','HashTable1']

Its is data structure used for that question and difficulty level of that question will form an element in an array

Output: Questions that are suggested to solve next

Ex: ['array2','Heap2'','matrix2"]









How it works:

Training with the data: Data is the order in which other users have solved the questions.

Building Prediction Tree: It build a tree which the help of data present in training data

Data structure Used: To store the tree a data structure similar to trie is used

Input: Series of question user have solved

Traverse the tree: With the sequence provided as input the model traverse the tree and try to find the next question that the user need solve

Output: Questions that are suggested to solve next











Thank You