Web Page Generator

Course Name: Software Engineering (CSN – 302)

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Aim:

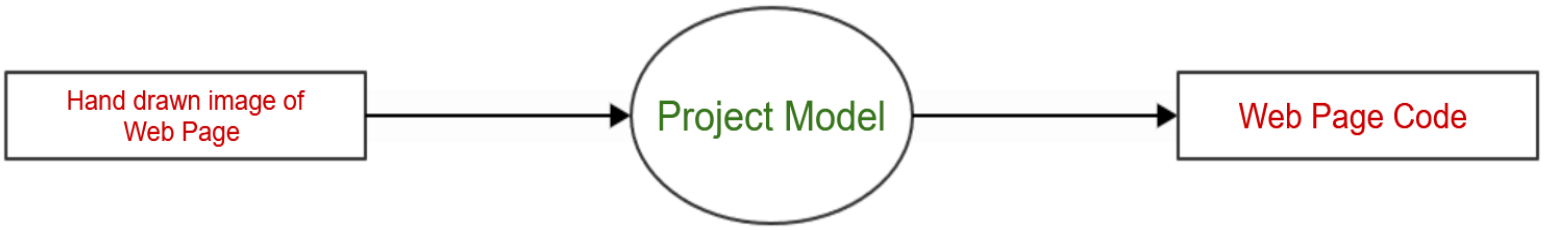
The Aim of our project is to transform any hand-drawn user input (Web page model) into its corresponding web page code using Image Processing techniques and Artificial Intelligence Models.

Workflow:

The User will have to upload a hand-drawn sketch of the desired web page.

This sketch will then be processed by Image Processing techniques and various Artificial Intelligence Models, which will aid in the recognition of the various features and components of the web page required by the user.

After completion of all these processes, the HTML/CSS file of the corresponding web page will be generated.



Environment:

1. Front End:
    a. HTML5
    b. CSS
    c. JavaScript

2. Back End:
    a. Flask
    b. TensorFlow
    c. Python

Applications:

1. Conversion of hand-drawn images uploaded by the user to its corresponding website code.

2. Text recognition feature could be used to extract handwritten content and also in the digitalisation of legacy documents.

3. Object recognition could also be used to analyse hand drawn patterns.

Future aspects:

A mobile application can be created along with the addition of translation feature, in order to benefit a larger user-base.