**ABSTRACT**

HTML is extremely fun to write with, it is very easy to learn and therefore gives the power to create any website design in the world! But sometimes designing a web page and to make it look attractive is quite boring. For some people, web designing can be a little daunting, where they would be able to get the functionalities right but not be able to make it look pretty.

This is where the project ‘**Auto UI code generation using AI’** can be used where the user could physically draw the user interface he wishes to display and the system could intelligently generate the same on an actual visual screen and also provide the HTML code for it. The idea is to try to do as little as possible when we build the future web. This isn’t a rationalization for laziness or shirking responsibility nor it is a suggestion that we build bland, homogeneous sites and apps that sacrifice all nuance or spark to the Greater Good of total compatibility. Instead, it is an appeal for simplicity and elegance: putting commonality first, approaching differentiation carefully, and advocating for consistency in the creation and application of web standards.

In the project, an image is given as an input that is analyzed to identify each different HTML element in the image and provide its virtual representation and HTML code. The design created by each user is stored on Firebase in the respective user’s account. This way the user will also be able to reuse the designs created. The advancement to the proposed system would be where the user could use a video feed to simultaneously generate the user interface as and when the user draws something in the video feed.