**EstiHome Bidder**

Final Year Project Proposal

**GROUP MEMBERS:**

Aisha Azhar

Areeba Aziz

Rafia Waseem

Sumaiya Jamal

**Department of Computer Science and Software Engineering**

**Jinnah University for Women**

# Project Summary:

Everyone desires their ideal house, but not everyone is capable of designing one themselves. Designing a home is a challenging task. It is typically carried out by licensed architects, who must have a number of years of experience in designing, planning, implementing, and utilizing specialized design tools. Every day, housing prices change and are occasionally increased rather than based on evaluation. Selecting suitable builders for the construction of their home according to their desired requirements and price might be difficult for users. They struggle to make a final selection because local builders urge them to believe what they want them to think. The major focus of our approach is to use actual factors to generate a 3D model, which will help builders forecast house value and finally by the help of bidding helps to select a builder who is willing to work for us. A 3d modeling platform is created, users can simply drag and drop walls on their selected square feet area of the house. Further it will provide builders a public bidding platform for them to bid on the 3d model which will be posted by users.

## Overview:

Finding the finest contractors or builders to build the home one wants is becoming increasingly difficult. Since users lack the necessary knowledge in this area, local builders convince them to believe what they want them to think. We're developing a mechanism to assist users in describing the home they want in terms of their needs. By simply dragging and dropping the walls on the user's specified square area, a 3D model of the home can be created. Users have the option to post the 3D model generated with some description on a dashboard that is open to the builders. Based on a 3D model and specifications given by users, registered builders may submit bids on the customer's post. Following that, the consumer will select the builder based on bid prices. Bidding is a competitive procedure, it implies that, depending on what the particular contract requires, each firm is assessed on a certain set of criteria. When a user chooses a bid, they are redirected to the chat module, where they can communicate with the builder.

## Scope:

The scope of this project includes and excludes the following:

### In scope:

* Gathering requirements from customers.
* 3 panels for admin, local builders and users.
* Project is for general users and builders.

### Out of scope:

* Blog page for builder.
* Giving the estimated price of models,
* Our project is not for contractors.

### Deliverables produced:

* Deliverable 1: Prototype of application.
* Deliverable 2: Web Application.
* Deliverable 3: Mobile Application.

## Objectives:

The ***EstiHome Bidder*** will meet the following objectives:

* Objective #1: Generate a 3D model which will enhance the knowledge of the user about how they want their house to be constructed.
* Objective #2: Provide a blueprint of the house for the builders to bid on it.
* Objective #3: Prediction of estimated price by bidding process.
* Objective #4: A complete web and mobile based application for better interaction of users.

# Project Approach

## Tools and Technologies

* Html / CSS
* Laravel
* SQL
* React Native
* Adobe Illustrator
* Adobe Photoshop
* Just in Mind
* 3js

## Expected Algorithm

* Ranking algorithm