**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:**

* To give our customers an estimate of their home's value based on genuine elements like size, location, and material quality.
* To aid them in visualizing their homes and locating potential improvement areas through the use of 3D modeling technologies.
* To aid in choosing a builder who is willing to collaborate with them by offering bidding tools and competitive bids.
* To simplify the process of building and bidding on homes by offering a complete platform that combines builder selection, value, and design.

Estihome seeks to improve the efficiency and transparency of the home visualization, valuation and construction process.

**With respect to builder:**

* **Gaining access to new clients:** By taking part in the Estihome bidder bidding process, builders can access a larger pool of prospective clients who are actively looking for home construction services.
* **More effective project management:** Estihome bidder can assist builders in streamlining the project management process and decreasing the amount of time and work necessary to complete a project by using 3D modeling and cost estimates to start the process.
* **More competition:** By taking part in Estihome bidder's bidding process, contractors can compete against one another on an even playing field and perhaps land more work as a result.
* **Increased client satisfaction**: Contractors can ensure that clients are happy with the finished product and prevent conflicts or misunderstandings by giving clients more precise information about the cost and scope of a project

# Project Approach

## Tools and Technologies

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

## Expected Algorithm

* Ranking algorithm