

Minor Project 2021

3D Real-estate Walkthrough

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Introduction

- Real-Estate is one of the best long term investment options people have.
- A lot of people invest money in upcoming or ongoing projects but they often face difficulty in choosing where to invest and where not to.
- Our idea is to give the customer more clarity in the property they are looking to invest in by giving them a 3D walkthrough of the same through a realistic 3D model.
- This concept allows the clients to experience the property virtually and taking care of the social distancing norms.



Literature Survey

- There are many affirmations that businesses should be educated on the potential of e-Commerce and that managers need to become more involved in formulating and implementing e-Commerce strategies (Lawrence et al., 2000; Kalakota and Whinston, 1997; Timmers, 1999)[1]. SMEs constitute over 97 percent of non-government businesses in Australia (ABS, 2000), consequently they contribute significantly to the economy of Australia and provide a large proportion of the public sector employment.
- To assist in the understanding of the workings of electronic commerce and its applicability to SMEs, models of the activity have been examined[2]. The current e-Commerce frameworks and/ or models in the literature seem to come from differing perspectives presenting a range of varying elements.
- Chan and Swatman (1999) have developed a dynamic model of e- Commerce, representative of all e-Commerce types, activities and capabilities that demonstrate its performance in product and service terms[3]. The complexity of the framework is modelled into a fluid representation of the varying viewpoints of the stakeholders as displayed in Figure 1.
- The Meta view level is made up of an e-Commerce definition surrounded by three components containing various objects: Infrastructure (Technical), comprising: databases, EDI, ISP, security, website, smart card devices, development multimedia, communications/telecommunications/ network technologies, Internet/ intranet/ extranet[4].
- The boundaries are fluid; subsequently the size of each area is determined by the specific views of the parties involved. Any alteration of the borders does not affect the actual weight of the components within the model. The model also allows for changes over time as objects may be added to or removed from the basic components.[5]

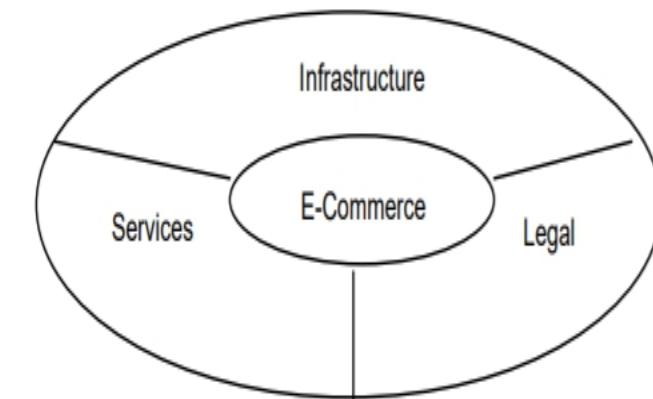


Figure 1: The Meta View of E-Commerce (Source: Chan and Swatman, 1999)

Problem Statement

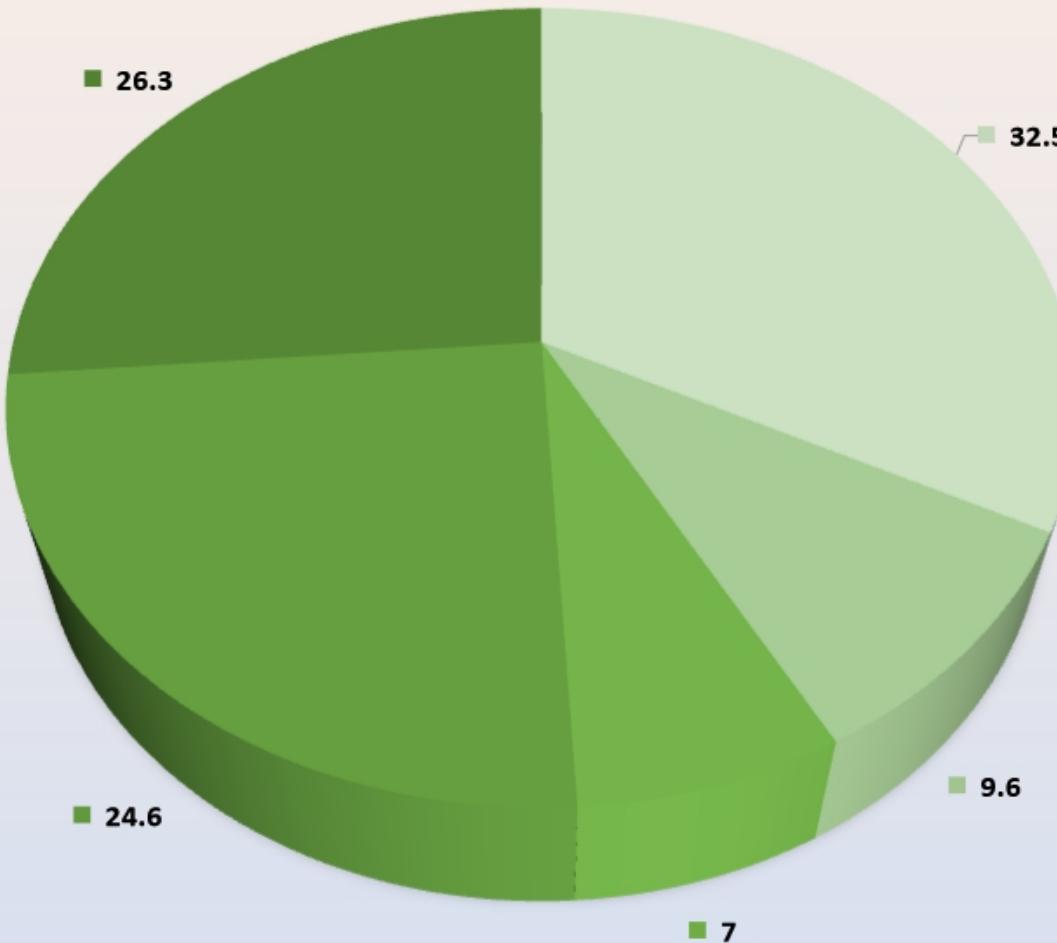


- The global pandemic or the massive outbreak of coronavirus have cost a fortune for almost every business.
- The once affected at their peak are the once which require subsequent amount of product evaluation in front.
- Real Estate after the restrictions have been forced to come on its knees with people not able to go and see thus leading to dip in purchases .

Problem Statement

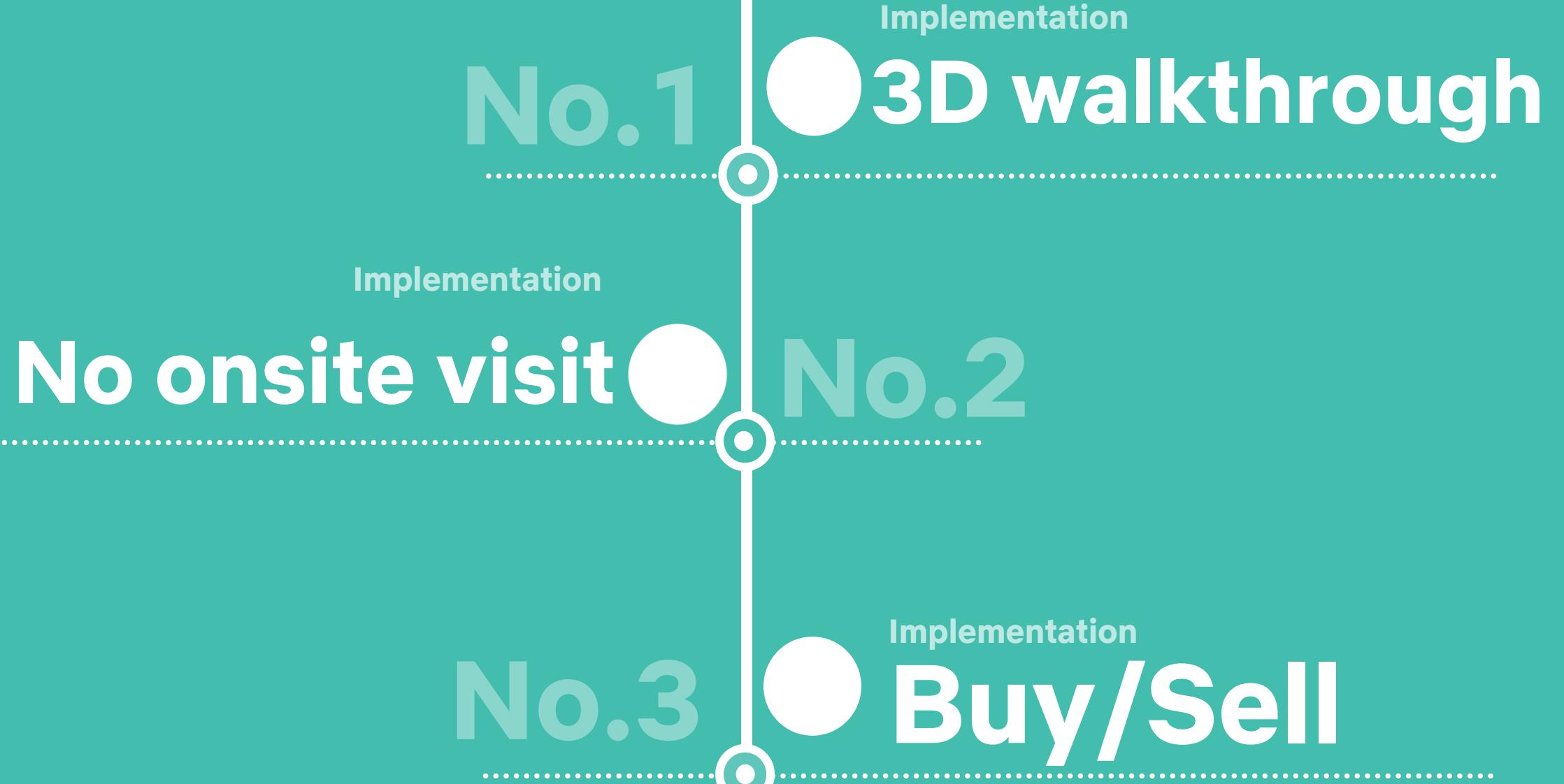
- A world in which not e-commerce is the future , providing people with physical like experience is an opportunity to seek.
- With features like 360 view of houses and three dimensional views of both exterior and interior saves both time as well as providing more options to the customer. A person is more likely to invest if what he sees is what the actual property looks like.
- We are not just covering blueprints we are relishing the way the experience is meant to be maximized.

Reasons for buying a House



■ Need Bigger Space ■ Tax benefits on loan ■ Offered a good deal ■ Price Appreciation ■ Want to save on rent

Implementation of project



No.4

Frontend
HTML

Frontend
CSS

No.5

No.6

Frontend/Backend
JS

No.7

Server Scripting
PHP

Features

Instant Callback

No.8

No.9

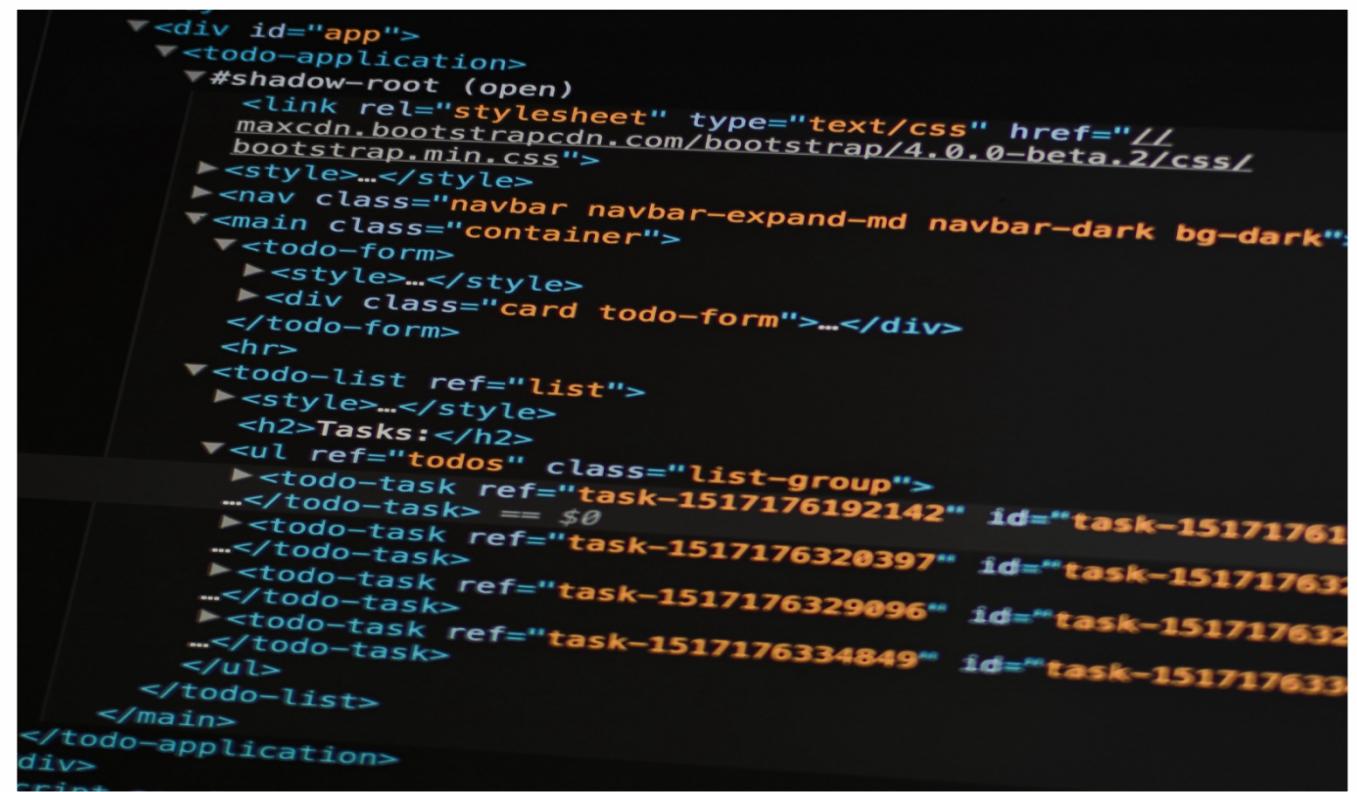
Features

24*7 Support

Web Development

- Web Development is the building and maintenance of websites; it's the work that happens behind the scenes to make a website look great, work fast and perform well with a seamless user experience.

- The languages they use depends on the types of tasks they are performing and the platforms on which they are working.



```
<div id="app">
  <todo-application>
    #shadow-root (open)
      <link rel="stylesheet" type="text/css" href="//maxcdn.bootstrapcdn.com/bootstrap/4.0.0-beta.2/css/>
      <style>...</style>
      <nav class="navbar navbar-expand-md navbar-dark bg-dark">
        <main class="container">
          <todo-form>
            <style>...</style>
            <div class="card todo-form">...</div>
          </todo-form>
          <hr>
          <todo-list ref="list">
            <style>...</style>
            <h2>Tasks:</h2>
            <ul ref="todos" class="list-group">
              <todo-task ref="task-1517176192142" id="task-1517176192142">...</todo-task>
              <todo-task ref="task-1517176320397" id="task-1517176320397">...</todo-task>
              <todo-task ref="task-1517176329096" id="task-1517176329096">...</todo-task>
              <todo-task ref="task-1517176334849" id="task-1517176334849">...</todo-task>
            </ul>
          </todo-list>
        </main>
      </todo-application>
    <div>
      <script>...</script>
    </div>
  </div>
```

This picture is not an actual representation of the code.

HTML vs CSS vs JS

HTML



CSS



JS



- HTML is a markup language for describing web documents (web pages).
- HTML uses tags to help you add paragraphs, headers, pictures, bullets and other pieces of structure.

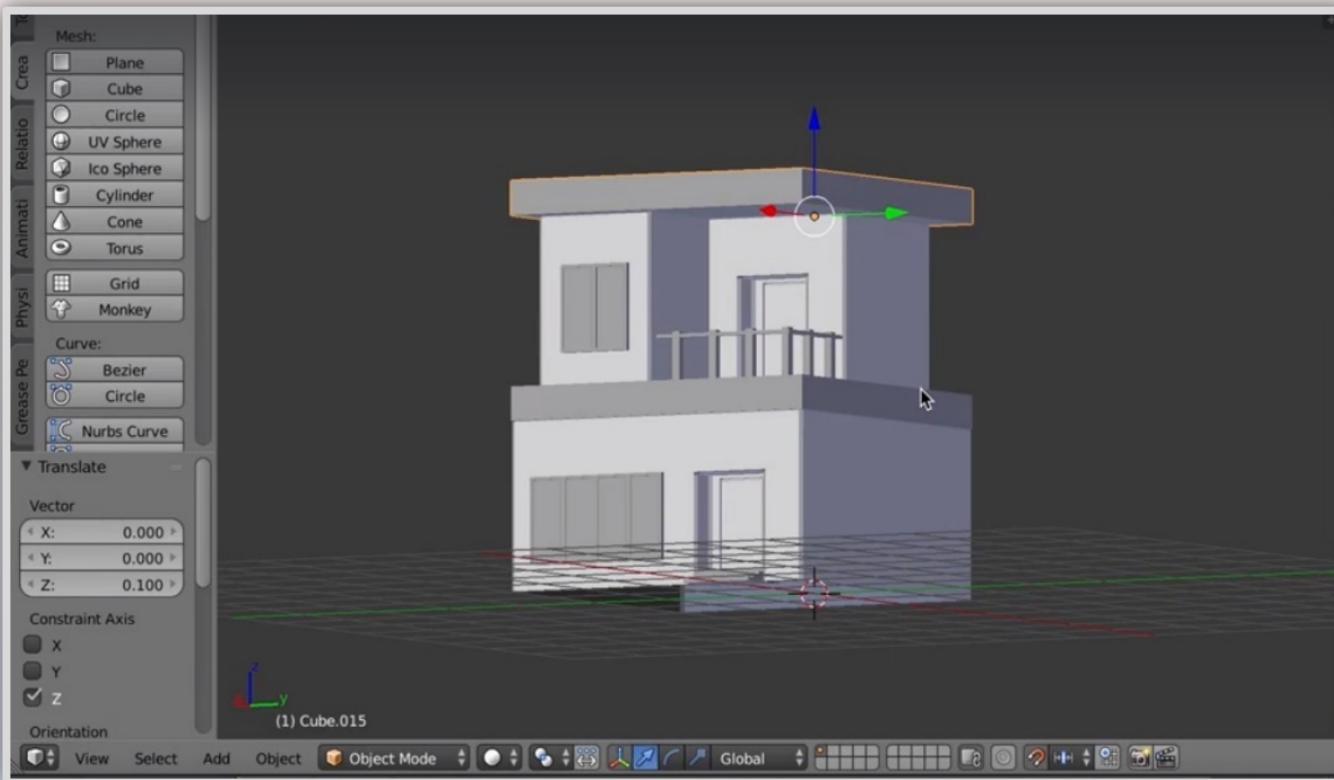
- CSS describes how HTML elements are to be displayed on screen, paper, or in other media.
- Created to compliment HTML, CSS (Cascading Style Sheets) is what makes a website look and feel amazing.

- JavaScript (JS) is a scripting languages, primarily used on the Web.
- This allowing the pages to react to events, exhibit special effects, accept variable text, validate data, create cookies, detect a user's browser, etc.

Blender



- The software also provides a huge set of plugins to use that can be beneficial in creating different types of models, animations, sculptures, etc.
- Blender is a popular 3D animation and modeling software providing a large variety of tools to work with. It is open-source software, easy to download, customize and work your way within itself.



Home Page(part 1) : CSS work in progress



- Home
- About Us
- Services
- Gallery
- Contact Us

[Email Us](#)

BEYOND THE BRICKS



Who We Are

We are group of 3D Artists who specialize in the creation of 3D visual assets for real estate developers and architectural designers. We create beautifully rendered architectural environments and lifelike Property.

Why Choose Us?

<ul style="list-style-type: none">• Fully Insured• 100% Satisfaction Guarantee• Affordable Pricing	<ul style="list-style-type: none">• Free Consultation• Satisfied Customers• Project Management
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Home Page (part 2): CSS work in progress



INTERIOR 3D DESIGN & ARCHITECTURE

Our interior architectural renderings bring every detail to life. We incorporate meticulous detail into our material applications, ensuring a look and feel that's as lifelike as possible.

EXTERIOR RENDER ARCHITECTURE

From concept to render, our exterior architectural renderings bring every detail to life. We incorporate meticulous detail into our material applications, ensuring a look and feel that's as lifelike as possible.



Property 1(part 1) : CSS work in progress

The screenshot shows a website for 'Ryo homes'. At the top, there's a navigation bar with links: 'ABOUT' (underlined in red), 'PHOTOS', 'OTHER PROJECTS', and 'CONTACT US'. Below the navigation is a large banner image of a modern building. On the left side of the main content area, there's a small image of a kitchen and dining area. The main text on the page reads:

All about ryo homes

Here, at ryo homes, a bewitching life awaits you. Located at one of the developers' parts of the city. ryo homes Greens is your dream home. The soothing ambience created by our architects will take your breath away. We believe in elegant designs that define space for your family to nurture and grow. ryo homes has made sure that you get enough time for yourself and for your family. For that we have built our scheme on the main road.

Facilities you get:

- Gardens and Pleasant sitouts
- CCTV Surveillance

Property 1(part 1) : CSS work in progress



Project specifications:

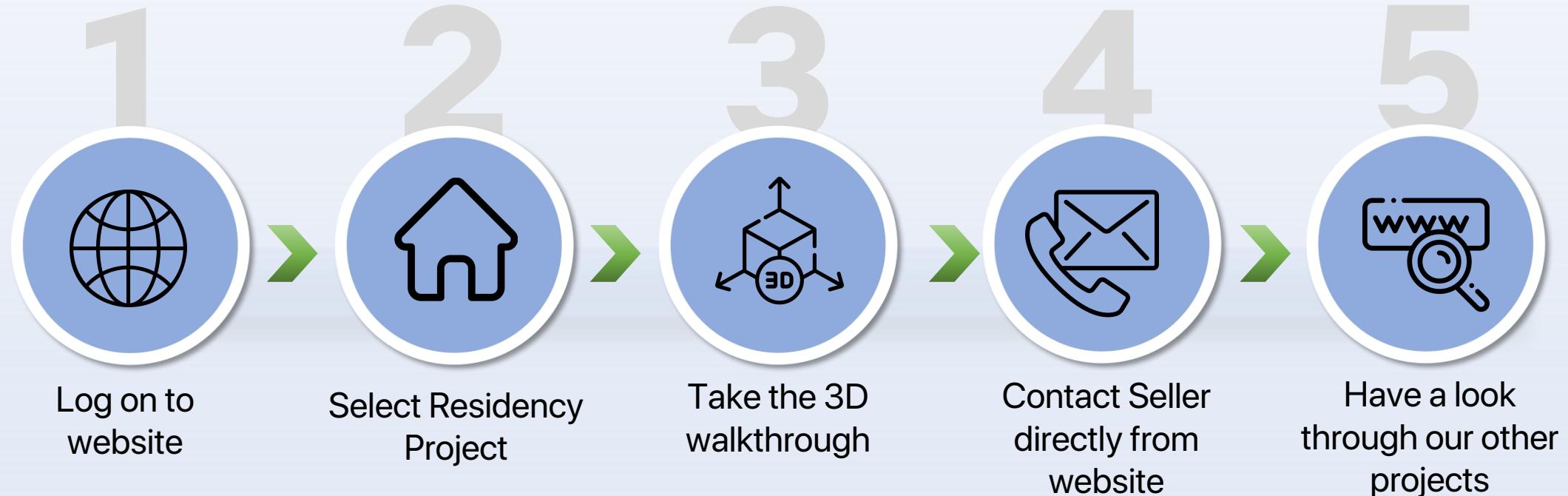
Sports:

- Gym
- Indoor Games
- Children Play Area
- Yoga Lawn

Environment:

- Well Designed
- Landscaped
- Senior citizen lawn
- Visiting Park

Activity Flow



Advantages :

Buyers:

- 3D walkthrough allows a better understanding of the house as a virtual tour.
- Provides close experience as an onsite visit is not required.

Sellers:

- More people can invest in the seller's project.
- Can much easily show the project even before construction.



References

1. ABS (Australian Bureau of Statistics), 2000, *8129.0 Business Use of Information Technology Australia*, [on-line], <http://www.abs.gov.au/ausstats/ABS%40.nsf/b06660592430724fca2568b5007b8619/9c7742890adec989ca2568a900139423!OpenDocument>, accessed 15 May 2001.
2. Adam, S. and Deans, K. R., 2000, "On-line Business in Australia and New Zealand: Crossing a Chasm", *Ausweb2K Sixth Australian World Wide Web Conference*, Southern Cross University, Lismore, [on-line], <http://www.ausweb.scu.edu.au/aw2k/papers/adam/paper.html>, Accessed 7 June 2001.
3. Benbasat, I., Goldstein, D. K. and Mead, M., 1987, "The Case Research Strategy in Studies of Information Systems", *MIS Quarterly*, vol 11, issue 3, pp 369-387, September.
4. Bode, S., and Burn, J., 1999, "SMEs and the Role of Consultants in Establishing e-business: A Case Analysis", *Proceedings of CollECTeR '99*, Victoria University, New Zealand, [on-line], <http://www.collecter.org/organisation/coll99/bode.pdf>, accessed 17 March 2001.
5. Castleman, T. and Cavill, M., 2001, "e-Everything: e-Commerce, e-Government, e- Household, e-Democracy", *Proceedings of the 14th Bled Electronic Commerce Conference*, Bled Slovenia, June 25-26, [on-line], http://mis.deakin.edu.au/research/Working_Papers-2001/2001_02_Castleman.pdf, accessed 27 June 2001.

Thank You!