



Republic of the Philippines

## **CAVITE STATE UNIVERSITY**

### **Bacoor City Campus**

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## **CvSu GO:A Gamified CVSU Bacoor Tour Experience**

A project  
Presented to  
the Faculty of CvSU Bacoor

In partial  
Fulfillment Of the  
Requirements for  
the Course  
System Analysis  
and Design

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January 2024

## **I. Background of the Organization**

### **Mission**

Cavite State University shall provide excellent, equitable and relevant educational opportunities in the arts, sciences and technology through quality instruction and responsive research and development activities. It shall produce professional, skilled and morally upright individuals for global competitiveness.

### **Vision**

The premier university in historic Cavite globally recognized for excellence in character development, academics, research, innovation and sustainable community engagement.

## **II. Current State of Technology**

In today's rapidly evolving technological landscape, there is a growing need for educational institutions to adopt more innovative and interactive approaches to campus navigation. One potential solution could involve the development of a gamified tour mobile application specifically tailored to the CVSU Bacoor Campus. Such an app could provide users with a dynamic and engaging way to explore the campus.

This gamified tour app would offer detailed maps of the campus, including building layouts, room numbers, and key facilities, making it easier for users to navigate through the campus. Users, including current visitors and first-year students, often inquire with guards to locate specific rooms or facilities, highlighting the need for a more accessible and efficient

navigation system.

Cavite State University Bacoar Campus currently relies on traditional methods for campus navigation, primarily through in-building floor plans. These floor plans are typically accessed by physically visiting the respective buildings, which can be time-consuming and inefficient, especially for newcomers or visitors unfamiliar with the layout. Additionally, while the CVSU Bacoar website does feature a video showcasing the school's vicinity, this visual aid might be perceived as monotonous, particularly for incoming 1<sup>st</sup> Year Students who are eager to explore and get acquainted with their new environment.

### **III. Proposed System**

Introducing a mobile 2D game developed to assist both visitors and incoming freshmen in navigating and familiarizing themselves with the school environment, all without the need for a physical visit to the campus. This mobile game not only serves as an engaging and interactive platform but also ensures a seamless virtual exploration of the school's facilities, landmarks, and important points of interest.

#### **Benefits of the system**

**Gamified Navigation:** CVSU Go introduces an innovative approach to campus exploration, providing users with a captivating and enjoyable gamified navigation experience. By gamifying the navigation process, the application transforms mundane tasks into interactive challenges, making the journey across the campus an engaging adventure. This not only enhances the overall experience for users but also encourages a sense of excitement and curiosity, particularly beneficial for freshmen and visitors.

**Promotes the School:** In addition to facilitating efficient navigation, CVSU Go serves as a dynamic tool to promote the school. Through the gamified elements embedded within the app, users are not only navigating but also discovering various aspects of the institution. This promotes a deeper understanding of the campus layout, facilities, and culture, fostering a positive and immersive connection with the school.

**User-Friendly Interface:** CVSU Go boasts an intuitively designed user interface that ensures a seamless navigation experience and facilitates quick information retrieval. The interface prioritizes simplicity and accessibility, allowing users of all technological proficiencies to effortlessly engage with the application. With clear and concise menus, interactive maps, and easy-to-use features, CVSU Go promotes inclusivity and ensures that users can maximize the benefits of the gamified navigation experience without any technical barriers.

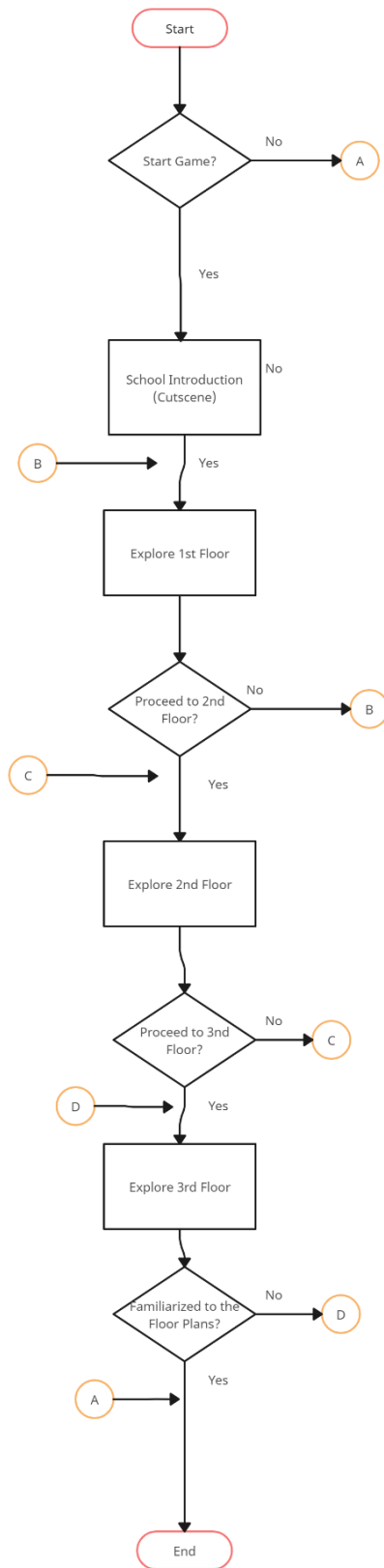


Figure 1. Flowchart

## System Requirements

To ensure smooth operation and optimal performance of the software application, please adhere to the following system requirements:

- Operating System: Android Marshmallow (6.0) or later
- RAM: Minimum 2 gigabytes required
- Storage: Approximately 60 megabytes required for installation and operation

## User interface requirements

Figure 2. Main Menu



Figure 3. School Map



Figure 4. Academic Building



Figure 5. Floor Plan



#### IV. Significance of the study

##### Visitors:

The study holds paramount significance for visitors as it provides them with an innovative and user-friendly tool for exploring the campus without the need for a physical visit. Visitors can virtually navigate the school's premises, gaining insights into its facilities, landmarks, and overall environment. This virtual exploration not only saves time but also offers a unique and engaging experience, ensuring that visitors leave with a positive impression of the institution.

##### 1<sup>st</sup> Year Students:

For 1<sup>st</sup> Year Students, the study is of immense importance as it eases the daunting transition to a new academic environment. CVSU Go offers a gamified and interactive means for freshmen to familiarize themselves with the campus layout, locate key facilities, and access important information. By transforming the introduction to the school into a playful experience,



the study contributes to a smoother adaptation process, reducing anxiety and fostering a sense of belonging from the very beginning of their academic journey.

**Students:**

Current students benefit from the study by having a more dynamic and enriched campus experience. CVSU Go not only facilitates efficient navigation but also keeps students informed about campus events, announcements, and resources through an engaging platform. The gamified features add an element of fun to daily campus activities, creating a sense of community and involvement among the student body.

**School:**

The school, as a whole, stands to gain significantly from the implementation of CVSU Go. The application acts as a promotional tool, showcasing the institution's commitment to innovation and technological integration. Moreover, by enhancing the overall experience for visitors, freshmen, and current students, CVSU Go contributes to a positive and vibrant campus culture. The study underscores the school's dedication to providing cutting-edge solutions for its stakeholders, aligning with its mission to offer quality education and foster a conducive learning environment.