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# **The Powdered Waffles**

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**cSpace**  
**Project Vision Document**

**Version 3.0**

<b>cSpace</b>	Version: 3.0
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<b>cSpace</b>	Version: 3.0
Vision	Date: 04/25/23
Project Vision Document (PVD)	

## Revision History

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02/09/23	1.0	Preliminary Draft	Kathryn Compton, Elizabeth Rubio
02/10/23	1.1	Revision of Preliminary Draft - Basic revision for grammar and errors	Ila Wallace
03/24/23	2.0	Secondary Draft - Updated References - Updated according to initial suggestions by professor	Ila Wallace
04/25/23	2.1	Revision of Secondary Draft -Updated text to be justified -Updated References list -Updated stakeholders to include "User"	Kathryn Compton, Elizabeth Rubio
04/25/23	3.0	Final Draft - Final Revisions	Ila Wallace

<b>cSpace</b>	Version: 3.0
Vision	Date: 04/25/23
Project Vision Document (PVD)	

## Table of Contents

1.	Introduction	5
1.1	Purpose of the Document	5
1.2	Scope of the Document	5
1.3	References	5
1.4	Definitions, Acronyms, and Abbreviations	6
2.	Positioning	6
2.1	Business Opportunity	6
2.2	Problem Statement	6
2.3	Product Position Statement	7
3.	Stakeholder and User Descriptions	7
3.1	Stakeholder Summary	7
3.2	User Summary	8
3.3	User Environment	8
3.4	Summary of Key Stakeholder or User Needs	8
3.5	Alternatives and Competition	9
4.	Product Overview	9
4.1	Product Perspective	9
4.2	Assumptions and Dependencies	9
4.3	Cost and Pricing	9
4.4	Licensing and Installation	10
5.	Product Features	10
5.1	Feature 1 – Grid Based User Interface	10
5.2	Feature 2 – Filtered Search System	10
5.3	Feature 3 – Safety Features	10
5.4	Feature 4 – Secure Account System	10
5.5	Feature 5 – User Chat System	10
5.6	Feature 6 – Login	11
5.7	Feature 7 – Sign-up	11
5.8	Feature 8 – Logout	11
5.9	Feature 9 – Account Deletion	11
5.10	Feature 10 – Profile	11
5.11	Feature 11 – App Settings	11
6.	Constraints	11
7.	Quality Ranges	12
8.	Precedence and Priority	12

cSpace	Version: 3.0
Vision	Date: 04/25/23
Project Vision Document (PVD)	

# Project Vision Document

## 1. Introduction

This document illustrates the project vision for the development and deployment of the dating application cSpace by The Powdered Waffles team.

### 1.1 Purpose of the Document

The purpose of this document is to collect, analyze, and define high-level user needs as well as the key features of cSpace. The document will focus on the capabilities needed by the stakeholders and the target users, and why these specific needs exist. Additionally, the details of how cSpace fulfills these needs are detailed in the use-case and supplementary specifications.

### 1.2 Scope of the Document

The scope of the document will include business opportunities, a product statement, and a product position statement for cSpace. Subsequently, this document will detail the stakeholders and expected users, their needs, and any alternatives or market competition the cSpace application may have upon deployment. The product perspective, its assumptions/dependencies, cost and a breakdown of pricing, as well as licensing and installation requirements will also be specified. Finally, this document will explore the various product features that cSpace will use along with any possible constraints, range in quality, and which of these will take precedence and priority in this project.

### 1.3 References

Below is a list of other documents that are related to the project:

- Project Proposal Document – Version 1.0 – Last Updated 01/03/2023
- Project Plan Document – Version 3.0 – Last Updated 04/25/2023
- Software Requirements Specifications – Version 3.0 – Last Updated 04/25/2023
- Software Design Document – Version 3.0 – Last Updated 04/25/2023
- Software Test Document – Version 3.0 – Last Updated 04/25/2023
- Software Source Code – Version 3.0 – Last Updated 04/25/2023

<b>cSpace</b>	Version: 3.0
Vision	Date: 04/25/23
Project Vision Document (PVD)	

## 1.4 Definitions, Acronyms, and Abbreviations

Term	Abbreviation / Acronym	Definition
Dating Applications	Dating App(s)	A software application used for mobile devices such as phones, tablets, and other handheld personal devices.  The primary focus of the software is providing the user a way to interact with other individuals interested in dating and/or relationships.
College Students	Students	Individuals who are currently enrolled in a 2-year or 4-year institution that is designated as a college or university.
Targeted Advertisements	Targeted Ads	Advertisements supplied by outside companies who wish to utilize the digital real estate of cSpace to gain exposure to potential customers of specific brands, goods, and services.

## 2. Positioning

This section outlines the position of the cSpace product alongside its economic and business opportunities towards a demographic that desires more user-focused control regarding dating and building relationships.

### 2.1 Business Opportunity

cSpace presents a large business opportunity because the application offers a refined dating experience targeted towards college students. This dating application will offer specialized filters and searches to allow users to browse with ease to find other users with similar interests and demographics. cSpace will give the user an inexpensive yet immersive dating app experience whilst also using targeted ads to bring in revenue.

### 2.2 Problem Statement

Problem	A lack of user-paced dating apps and websites tailored towards college students.
Effect	College students who are struggling to find personal and/or romantic connections with other college students through the medium of online dating.
Impact	An unsatisfying and inauthentic dating experience for college students.
Solution	A dating application designed with more user control, better usability, and more transparency.

<b>cSpace</b>	Version: 3.0
Vision	Date: 04/25/23
Project Vision Document (PVD)	

## 2.3 Product Position Statement

Primary Demographic	College students attending 2-year and 4-year institutions.
Demographic Needs	A desire for a better dating application experience when seeking personal and/or romantic connections with other fellow college students.
Our Product	cSpace, a dating application focused on user control, usability, and transparency.
Key Benefits	The dating application is user-controlled, meaning that the user is filtering through desired characteristics and/or demographics while maintaining access to all users on the platform.
Market Competition	Traditional dating apps such as Tinder, Hinge, and Bumble which prioritize monetization over quality of user experience while using dating platforms.
Product Positioning	cSpace is designed to provide a transparent, safe, and self-paced user experience for college students interested in dating and building potential life-long relationships with fellow college students.

## 3. Stakeholder and User Descriptions

This section outlines the types of stakeholders related to the development, implementation, deployment, and maintenance of the cSpace dating application. This section also provides more detailed and in-depth user descriptions.

### 3.1 Stakeholder Summary

Name	Description	Responsibilities
Software Development Team	The Powdered Waffles	<p>Produces an application system that will be maintainable.</p> <p>Ensures that there will be a market demand for the product's features.</p> <p>Oversees and monitors the project's progress through user requirements derived during user testing phases of development and implementation.</p> <p>Approves funding and other business administrative tasks during the application's development and deployment phases.</p>
Advertisers	External Companies	<p>Provides ads to be uploaded to the app's user interface.</p> <p>Provides project support in the form of revenue by renting cSpace's digital real estate.</p>
Users	Average User	Use the app as intended to interact with other users in a safe and secure dating environment.

<b>cSpace</b>	Version: 3.0
Vision	Date: 04/25/23
Project Vision Document (PVD)	

### 3.2 User Summary

Name	Description	Responsibilities	Stakeholder(s)
Users	College students	Use the application and provide feedback to any issues that arise during the deployment and maintenance phases.	Software Development Team Advertisers

### 3.3 User Environment

The app will be designed to function on mobile devices as well as Microsoft Windows and Apple computers. Each user will browse cSpace for potential matches independently, so the app will accommodate a single user per profile. Multiple users will interact over the internet, so the app will support many users accessing the app at a time.

Available tasks include creating an account, logging in, customizing a user profile, browsing for matches, and chatting with other users. Creating an account and logging in will be optimized to take minimal time, while the duration of other tasks will be dependent on each user's preferences and characteristics.

### 3.4 Summary of Key Stakeholder or User Needs

Traditional dating apps lack the quality of user-controlled pacing. This is because they are not browsing-based, and instead present the user their options in a restrictive manner. This problem will be solved with cSpace by providing a user-paced, browsing-based dating experience. College students especially will appreciate user-paced browsing because they are often busy and would favor more time for consideration of potential matches.

Another issue with traditional dating apps today is that they offer loosened restrictions by having users pay for a "premium" version of their service. cSpace solves this issue by offering an unrestricted experience for free, by only generating revenue from ads and never charging the user for upgraded service. College students will be drawn to this solution as well since they are often on a tight budget.

Finally, the other issue cSpace will solve is the lack of existing, quality-oriented dating apps designed for college students. cSpace will solve this by offering browsing and chatting features for free and will present users with a safe and aesthetically pleasing experience. College students will appreciate the no-cost, safe, and visually pleasing aspects of the product, as they are known to be on a budget and value the qualities of safety and design.



<b>cSpace</b>	Version: 3.0
Vision	Date: 04/25/23
Project Vision Document (PVD)	

### 3.5 Alternatives and Competition

Tinder, Bumble, Hinge, and eHarmony are among the top competitors against cSpace regarding the dating industry for cSpace. These sites and apps have the upper hand for popularity and ease of use; however, a major weakness these competitors share is that they often include a paid subscription or in-app purchases for users to access other additional features.

These applications also do not offer transparent and user-oriented browsing. This oftentimes results in matching users without any shared interests, and this can lead to discouraging users from continuing to use the platform as real connections are far less likely to form.

## 4. Product Overview

This section provides an overview of the cSpace product alongside any assumptions, required dependencies, costs, pricing, licensing, and the installation of the software on user devices such as mobile phones, tablets, and other personal electronic devices.

### 4.1 Product Perspective

cSpace will be an application that runs on Microsoft Windows and Apple computers, as well as Android and Apple mobile devices. cSpace will be developed using the React JavaScript library.

### 4.2 Assumptions and Dependencies

Assumptions include the continued reliability of the hardware and operating systems of Microsoft Windows and Apple computers, as well as Android and Apple mobile devices. This application will also rely heavily on the continued usability of React, a JavaScript library.

### 4.3 Cost and Pricing

The main cost of developing the cSpace dating application is the time required for the team to complete the development and testing phases of the project.

Secondly, the costs of maintaining a server for the application to be hosted on will be covered by the revenue generated from advertisers. This also includes the purchase of a developer license when the public release is completed and posted to the Apple and Google Play stores.

Any additional excess funding will be used for further research and development for the application.

<b>cSpace</b>	Version: 3.0
Vision	Date: 04/25/23
Project Vision Document (PVD)	

#### **4.4 Licensing and Installation**

Installing the application to a user's device will require different installation methods regarding the type of operating system that underlies the user's electronic device. In order to avoid installation issues for cross platform users, extensive testing will be required on all platform types to ensure that the installation process is quick and easy for the user.

Additionally, users will require certain database protections and protocols regarding ensuring the safety and security of user profiles and passwords. This includes denying fake sign ups, invalid credentials when logging in, or denying the creation of additional accounts for the same user.

Regarding licensing, a developer license for the Apple and Google Play stores will need to be purchased prior to the public release of the app. Lastly, the app will need to include an End-User License Agreement and Terms and Conditions agreement for the user to accept prior to the submission of a user's sign-up request.

### **5. Product Features**

This section focuses on detailing the types of features that cSpace will have as well as the product design constraints, quality ranges, and priorities of the project.

#### **5.1 Feature 1 – Grid Based User Interface**

Displays profile results in an aesthetically pleasing grid format.

#### **5.2 Feature 2 – Filtered Search System**

Users will be able to select characteristics to include and exclude from their match results.

#### **5.3 Feature 3 – Safety Features**

Prevents disturbing or unwanted content from being displayed to users in public profiles and within chat system.

#### **5.4 Feature 4 – Secure Account System**

Provides secure storage of users' account information.

#### **5.5 Feature 5 – User Chat System**

This will allow users to communicate with one another within the application.

<b>cSpace</b>	Version: 3.0
Vision	Date: 04/25/23
Project Vision Document (PVD)	

## **5.6 Feature 6 – Login**

This will allow users to login into their account when opening the application.

## **5.7 Feature 7 – Sign-up**

This will allow users to register and create a new account to use the application. This also includes an End-User agreement that the user must agree to prior to the acceptance of the sign-up request.

## **5.8 Feature 8 – Logout**

This will allow users to logout of their account.

## **5.9 Feature 9 – Account Deletion**

This will allow users to deactivate and delete their account. This also includes the system deleting accounts that are fake or have repeatedly violated community guidelines that will be detailed during the signup process through the Terms and Conditions.

## **5.10 Feature 10 – Profile**

This will allow users to personalize their profile for interactions between other users on the app. This includes allowing a user to add pictures, add personal details, and characteristics of other users that they are looking for.

## **5.11 Feature 11 – App Settings**

This will allow users to change their app settings such as changing the look of the app on their device.

# **6. Constraints**

cSpace app content and features will meet requirements to be available on the app store on Microsoft Windows, Apple, and Android devices. Additionally, the application will be constrained by the screen dimensions and size and capabilities of each device on the operating systems we hope to make cSpace available on.

cSpace	Version: 3.0
Vision	Date: 04/25/23
Project Vision Document (PVD)	

## 7. Quality Ranges

The Powdered Waffles team will strive to achieve the highest possible quality for cSpace's performance, robustness, fault tolerance, usability, safety, maintainability, and design.

Performance and usability will be tested through the loading times of user searches, messaging, and loading between different screens. Robustness, fault tolerance, and safety will be ensured by making sure the app passes all software and user tests. The maintainability and simplicity of the design of the app will be achieved through using good software engineering practices and incorporating user criticism during user testing into each version of the app.

## 8. Precedence and Priority

The *Safety Features* and *Secure Account System* product features will be the top priority in this project, as the safety and confidentiality of our users is of utmost importance.

The *Grid Based User Interface* and *Filtered Search System* features will take precedence afterwards, because we want to provide the smoothest possible experience for our users.

The *User Chat System* will be last in the list of priority but will still be regarded as an essential and important aspect of cSpace.