
The Powdered Waffles

cSpace Software Requirements Specifications (SRS)

Version 3.0

cSpace	Version: 3.0
Requirements Specification	Date: 04/25/23
Software Requirements Specification	

Document Preparation

Name	Role	Approval (Signature)	Approval Date
Kathryn Compton	Project Documenter, Project Designer, Software Tester	Kathryn Compton	02/21/23
Elizabeth Rubio	Project Documenter, Project Designer, Software Tester	Elizabeth Rubio	02/21/23
Alex Thompson	Quality Assurance Manager, Project Documenter	Alex Thompson	02/22/23
Jacob Jones	Lead Software Developer, Lead Project Designer	Jacob Jones	02/22/23
Ila Wallace	Project Manager, Document Editor, Software Developer	Ila Wallace	02/24/23

Document Approvals

Name	Role	Approval (Signature)	Approval Date
Kathryn Compton	Project Documenter, Project Designer, Software Tester	Kathryn Compton	02/24/23
Orlando Gomez	Software Developer, Project Designer	Orlando Gomez	02/24/23
Jacob Jones	Lead Software Developer, Lead Project Designer	Jacob Jones	02/24/23
Elizabeth Rubio	Project Documenter, Project Designer, Software Tester	Elizabeth Rubio	02/24/23
Alex Thompson	Quality Assurance Manager, Project Documenter	Alex Thompson	02/24/23
Ila Wallace	Project Manager, Document Editor, Software Developer	Ila Wallace	02/24/23

cSpace	Version: 3.0
Requirements Specification	Date: 04/25/23
Software Requirements Specification	

Revision History

Date	Version	Description	Author
02/21/23	1.0	Preliminary Draft	Kathryn Compton, Elizabeth Rubio, Alex Thompson, Jacob Jones
02/24/23	1.1	Revision of Preliminary Draft - Basic revision for grammar and errors	Ila Wallace
03/31/23	2.0	Secondary Draft - Updated according to initial suggestions by professor	Kathryn Compton, Elizabeth Rubio, Ila Wallace
04/25/23	2.1	Revision of Secondary Draft - Updated text to be justified -Updated References list -Updated Users -Updated Software and Hardware requirements -Edited Software Requirements priority -Edited Quality Requirement names	Kathryn Compton, Elizabeth Rubio
04/25/23	3.0	Final Draft - Final Revisions	Ila Wallace

cSpace	Version: 3.0
Requirements Specification	Date: 04/25/23
Software Requirements Specification	

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	5
2.	Product Scope	5
3.	Product Users	5
3.1	Users	6
4.	Use Cases	6
5.	Functional Requirements	6
5.1	Software Requirements	6
5.2	Hardware Requirements	7
6.	Quality Requirements	7
7.	Appendix A – Requirements Traceability	8
8.	Appendix B – Use Case 1 – Log In	9
9.	Appendix C – Use Case 2 – Search for Matches	11
10.	Appendix D – Use Case 3 – Chat with Other Users	13
11.	Appendix E – Use Case 4 – Create / Edit a User Profile	15
12.	Appendix F – Definitions, Acronyms, and Abbreviations	17

cSpace	Version: 3.0
Requirements Specification	Date: 04/25/23
Software Requirements Specification	

Software Requirements Specification (SRS)

1. Introduction

This document illustrates the software requirement specifications for the development and deployment of the dating app cSpace by The Powdered Waffles team.

1.1 Purpose of the Document

The purpose of this document is to document the hardware, software, and quality requirements for the cSpace application.

1.2 Scope of the Document

This document will elaborate on the expected product scope for cSpace. It will also detail the product users as well as three use cases (located in appendix B - E). The functional requirements (software and hardware) will be outlined, as well as the quality requirements. Appendix A will house the requirements traceability section which demonstrates the relationship between the different requirements of this project. A list of definitions, acronyms, and abbreviations pertaining to this project will be provided in appendix F.

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 Vision Document – Version 3.0 – Last Updated 04/25/2023
- Project Plan Document – 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

1.4 Definitions, Acronyms, and Abbreviations

See Appendix F.

2. Product Scope

The product scope includes creating a sleek, easy-to-use application. The system will also have safety features and a secure account system implemented to ensure users' comfort and safety. A user chat system will be utilized as well so users may experience the application to its fullest extent. A filtered search system that enables users to select certain characteristics to include and/or exclude from their matches will be included as well.

3. Product Users

This section outlines the types of product users and identifies their unique user characteristics regarding

cSpace	Version: 3.0
Requirements Specification	Date: 04/25/23
Software Requirements Specification	

cSpace as a dating application.

3.1 Users

Product User Type	User Characteristics
Common User	Understanding of computer software and technology level varies. Currently enrolled in college level education.

4. Use Cases

This section details the type of use cases for the cSpace application as well as assigns each a use case ID and provides a brief description.

Use Case ID	Use Case Name	Brief Description
UC-1	Log In	This use case explains how users will log into their account.
UC-2	Search for Matches	This use case explains how users will filter and search for other users' profiles to view.
UC-3	Chat with Other Users	This use case explains how users will chat with another user.
UC-4	Create / Edit User Profile	This use case explains how users will customize their user dating profile to be displayed to others when they search for matches.

5. Functional Requirements

This section outlines the types of functional requirements for the cSpace application regarding its software and hardware requirements for a user to use the application as intended.

5.1 Software Requirements

Requirement ID	Requirement Priority	Requirement
Req-Func-Sw-1	High	The system shall allow users to log into the system.
Req-Func-Sw-2	High	The system shall provide a user profile creation screen.
Req-Func-Sw-3	High	The system shall provide an instant messaging system.
Req-Func-Sw-4	Low	The system shall prompt the user and see if they want notifications from the application.
Req-Func-Sw-5	High	The system shall require Android version 4.1 or later.
Req-Func-Sw-6	High	The system shall require iOS version 11.0.

cSpace	Version: 3.0
Requirements Specification	Date: 04/25/23
Software Requirements Specification	

5.2 Hardware Requirements

Requirement ID	Requirement Priority	Requirement
Req-Func-Hw-1	Medium	The system shall require a stable network connection.

6. Quality Requirements

Requirement ID	Requirement Priority	Requirement
Req-Qual-UI-1	High	The system shall have a simple, aesthetic user interface.
Req-Qual-Sec-1	Low	The system shall not allow unauthorized access to the system.
Req-Qual-Main-1	Medium	The system shall be easily maintainable.
Req-Qual-Perf-1	High	The system shall have high performance.

cSpace	Version: 3.0
Requirements Specification	Date: 04/25/23
Software Requirements Specification	

7. Appendix A – Requirements Traceability

Requirement ID	Related Requirements	Test Case ID
Req-Func-Sw-1	Req-Func-Hw-3 Req-Qual-Sec-1	Test-Case-1
Req-Func-Sw-2	Req-Func-Hw-3 Req-Qual-UI-1 Req-Qual-Perf-4	Test-Case-2
Req-Func-Sw-3	Req-Func-Sw-3 Req-Func-Hw-3 Req-Qual-Sec-2 Req-Qual-Perf-4	Test-Case-3
Req-Func-Sw-4	Req-Func-Hw-1 Req-Func-Hw-2 Req-Func-Hw-3	Test-Case-4

cSpace	Version: 3.0
Requirements Specification	Date: 04/25/23
Software Requirements Specification	

8. Appendix B – Use Case 1 – Log In

Use Case ID	UC-1	
Use Case Name	Log In	
Brief Description	<p>The user is successfully able to log in and log out of the application.</p> <p>This is the first “Use Case”, because if the user can log in, then they are able to access all other features of the application.</p>	
Frequency of Use	Low – 5%	
Priority	High	
Current Version	3.0	
Date of First Version	02/22/2023	
Date of Last Version	04/25/2023	
Created By	Alex Thompson, Jacob Jones	
Last Update By	Kathryn Compton	
Approved By	Kathryn Compton	
Assumptions	<p>The system is in full working condition.</p> <p>The user login information database is in full working condition.</p> <p>The device is connected to the internet.</p> <p>The device is running Android version 4.1 or later or is running IOS 11.</p>	
Primary Actor	User	
Secondary Actor/s	User login information database	
Preconditions	<p>User is not already logged in to their account when they open the app.</p> <p>User has a cSpace account.</p>	
Postconditions	<p>User is logged into their account.</p> <p>User can access the application’s features.</p>	
Trigger	User clicks the “Log In” button upon opening the app.	
Main Success Scenario	User Actions	System Actions
	<ol style="list-style-type: none"> 1. The user inputs their correct username and password. 2. The user submits the username and password. 	<ol style="list-style-type: none"> 3. The system takes the username and password given by the user and sends it to the database to validate the information. 4. If the information is correct, the system grants the user access to their

cSpace	Version: 3.0
Requirements Specification	Date: 04/25/23
Software Requirements Specification	

		account.
Alternate Scenarios	User Actions	System Actions
	<p>1a. The user inputs their incorrect username and password.</p> <p>2a. The user submits the username and password.</p>	<p>3a. The system takes the username and password given by the user and sends it to the database to validate the information.</p> <p>4a. The system notifies the user that their credentials are incorrect or do not exist in the system.</p>
Additional Notes (Constraints, etc.)		

cSpace	Version: 3.0
Requirements Specification	Date: 04/25/23
Software Requirements Specification	

9. Appendix C – Use Case 2 – Search for Matches

Use Case ID	UC-2	
Use Case Name	Search for Matches	
Brief Description	The user is successfully able to search for and view other users' profiles and filter results by multiple characteristics.	
Frequency of Use	High – 40%	
Priority	High	
Current Version	3.0	
Date of First Version	02/24/2023	
Date of Last Version	04/25/2023	
Created By	Kathryn Compton	
Last Update By	Kathryn Compton	
Approved By	Kathryn Compton	
Assumptions	<p>The system is in full working condition.</p> <p>The user profile information database is in full working condition.</p> <p>The device is connected to the internet.</p> <p>The device is running Android version 4.1 or later or is running IOS 11.</p>	
Primary Actor	User	
Secondary Actor/s	User profile information database	
Preconditions	User is on the Search page.	
Postconditions	User is viewing the Search Results page, which displays other users' profiles that meet search/filter conditions.	
Trigger	User clicks the “Search” button upon applying filters on the Search page of the app.	
Main Success Scenario	User Actions	System Actions
	<ol style="list-style-type: none"> 1. The user inputs their desired filters by entering information or selecting options in the filters section of the search page. 2. The user submits the search. 	<ol style="list-style-type: none"> 3. The system takes the filtered options and sends them to the user profile information database to compare the information. 4. The system displays the results page with the applicable profiles shown.
Alternate Scenarios	User Actions	System Actions

cSpace	Version: 3.0
Requirements Specification	Date: 04/25/23
Software Requirements Specification	
	<p>1a. The user inputs their desired filters by entering information or selecting options in the filters section of the search page.</p> <p>2a. The user submits the search.</p> <p>3a. If matching profiles with this information are not found, the system displays the results page with a message asking the user to try different filters.</p>
Additional Notes (Constraints, etc.)	

cSpace	Version: 3.0
Requirements Specification	Date: 04/25/23
Software Requirements Specification	

10. Appendix D – Use Case 3 – Chat with Other Users

Use Case ID	UC-3	
Use Case Name	Chat with Other Users	
Brief Description	The user is successfully able to send and receive messages to and from other users.	
Frequency of Use	High – 40%	
Priority	High	
Current Version	3.0	
Date of First Version	02/24/2023	
Date of Last Version	04/25/2023	
Created By	Kathryn Compton	
Last Update By	Kathryn Compton	
Approved By	Kathryn Compton	
Assumptions	<p>The system is in full working condition.</p> <p>The device is connected to the internet.</p> <p>The device is running Android version 4.1 or later or is running IOS 11.</p>	
Primary Actor	User	
Secondary Actor/s	Server	
Preconditions	<p>User has selected another user to chat with.</p> <p>User is viewing the Chat screen.</p>	
Postconditions	The user can view chats between themselves and the user they are chatting with.	
Trigger	User or the other user they are chatting with types a message and presses the “Send” button on the chat screen.	
Main Success Scenario	User Actions	System Actions
	<p>1. The user inputs their message into the chat text box user their device’s virtual keyboard.</p> <p>2. The user submits the message by pressing the “Send” button.</p>	<p>3. The system takes the message from the device and transports it to the server.</p> <p>4. The server transports the message other user’s device.</p>
Alternate Scenarios	User Actions	System Actions
Additional Notes		

cSpace	Version: 3.0
Requirements Specification	Date: 04/25/23
Software Requirements Specification	
(Constraints, etc.)	

cSpace	Version: 3.0
Requirements Specification	Date: 04/25/23
Software Requirements Specification	

11. Appendix E – Use Case 4 – Create / Edit a User Profile

Use Case ID	UC-4	
Use Case Name	Create / Edit a User Profile	
Brief Description	The user is successfully able to customize their user profile that will be viewed by other users on the app.	
Frequency of Use	Medium – 15%	
Priority	High	
Current Version	3.0	
Date of First Version	02/24/2023	
Date of Last Version	04/25/2023	
Created By	Kathryn Compton	
Last Update By	Kathryn Compton	
Approved By	Kathryn Compton	
Assumptions	<p>The system is in full working condition.</p> <p>The user profile database is in full working condition.</p> <p>The device is connected to the internet.</p> <p>The device is running Android version 4.1 or later or is running IOS 11.</p>	
Primary Actor	User	
Secondary Actor/s	User profile information database	
Preconditions	User is on the “Create Profile” / “Edit Profile” page.	
Postconditions	The user’s profile customizations are saved and can be viewed by themselves (on the “My Profile” page) and other users (when searching for matches).	
Trigger	User clicks the “Create Profile” or “Edit Profile” button on the “My Profile” page of the app.	
Main Success Scenario	User Actions	System Actions
	<ol style="list-style-type: none"> 1. The user inputs or changes information about themselves and uploads pictures to be displayed on their profile. 2. The user submits the customizations to be made to their profile. 	<ol style="list-style-type: none"> 3. The system takes the data submitted by the user and sends it to the user profile information database to store the information. 4. The system displays a success message to the user when it successfully

cSpace	Version: 3.0
Requirements Specification	Date: 04/25/23
Software Requirements Specification	

		saves the information in the database.
Alternate Scenarios	User Actions	System Actions
	<p>1a. The user inputs or changes information about themselves and uploads pictures to be displayed on their profile.</p> <p>2a. The user does not submit the customizations to be made to their profile.</p> <p>4a. The user chooses “Yes” on the “Do you want to save the changes to your profile?” prompt.</p>	<p>3a. The system alerts the user that they forgot to save their changes and asks if they wish to submit them.</p> <p>5a. The system takes the data submitted by the user and sends it to the user profile information database to store the information.</p> <p>6a. The system displays a success message to the user when it successfully saves the information in the database.</p>
	<p>1b. The user inputs or changes information about themselves and uploads pictures to be displayed on their profile.</p> <p>2b. The user does not submit the customizations to be made to their profile.</p> <p>4b. The user chooses “No” on the “Do you want to save the changes to your profile?” prompt.</p>	<p>3b. The system alerts the user that they forgot to save their changes and asks if they wish to submit them.</p> <p>5b. The system exits the profile customization pages without sending any information to the user profile information database.</p>
Additional Notes (Constraints, etc.)		

cSpace	Version: 3.0
Requirements Specification	Date: 04/25/23
Software Requirements Specification	

12. Appendix F – 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.