**Project Interface Control Document**

GiftPal – The Ultimate Gift Exchange and Reminder App

Submitted in fulfillment

Of the requirements of

CMSC 495 Current Trends and Projects in Computer Science

(Group Project)

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**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author (s)** |
| 04/15/2023 | 1.0.0 | Original Document | Graham Primm |
| 04/16/2023 | 1.0.1 | Added ICD Table for each set of communicating classes | Graham Primm |
| 04/18/2023 | 1.0.2 | Populated Interface tables | Kalala Kalamba |
| 04/25/2023 | 1.1.0 | Made corrections, added data flow direction | Graham Primm |
| 05/07/2023 | 2.0 | Remove properties that aren’t applicable such as Gender, renamed fields like min\_price to min\_dollar\_amount, Item\_name to Wishlist and Wishlist\_Item In Gift Suggestion to User, added Group\_name to Notification sent to User, added Receiver\_first\_name and Receiver\_last\_name to Email\_notification, ensured that Email Notification Subsystem also includes Reminders and Gift\_Suggestion. Added password\_shash from Admin to Database. Added table for data exchanged with external System (Open AI and Docker) | Kalala Kalamba |

**Interface Control Document**

The Interface Control Document (ICD) is a document that lists all data and their types

that are passed among the subsystems or between a subsystem and an outside system.

The purpose of this document is to have the interfaces well defined so that sub-systems

can be coded in parallel by different software engineers.

Data between **User Subsystem** and **User Interface Subsystem**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| From | To | Name | Type | Value Range | Default Value |
| User Subsystem | User Interface | Username | String | Alphanumerical | Null |
| User Subsystem | User Interface | Password | String | Alphanumerical | Null |
| User Subsystem | User Interface | email | String | Alphanumerical | Null |
| User Subsystem | User Interface | DOB | Date | 01/1/1900-today | Null |
| User Subsystem | User Interface | Group\_Name | String | "A-Z" | Null |
| User Subsystem | User Interface | Event\_Type | String | "A-Z" | Null |
| User Subsystem | User Interface | Item\_Name | String | "A-Z" | Null |
| User Subsystem | User Interface | Special\_Date | Date | 01/1/1900-today | Null |
| User Subsystem | User Interface | First\_name | String | Alphanumerical | Null |
| User Subsystem | User Interface | Last\_name | String | Alphanumerical | Null |
| User Interface | User Subsystem | Username | String | Alphanumerical | Null |
| User Interface | User Subsystem | Password | String | Alphanumerical | Null |
| User Interface | User Subsystem | email | String | Alphanumerical | Null |
| User Interface | User Subsystem | DOB | Date | 01/1/1900-today | Null |
| User Interface | User Subsystem | Group\_Name | String | "A-Z" | Null |
| User Interface | User Subsystem | Event\_Type | String | "A-Z" | Null |
| User Interface | User Subsystem | Wishlist | String | "A-Z" | Null |
| User Interface | User Subsystem | Special\_Date | Date | 01/1/1900-today | Null |
| User Interface | User Subsystem | First\_name | String | Alphanumerical | Null |
| User Interface | User Subsystem | Last\_name | String | Alphanumerical | Null |

Data between **User Subsystem** and **Administration Subsystem**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| From | To | Name | Type | Value Range | Default Value |
| User | Admin | Username | String | Alphanumerical | Null |
| User | Admin | Password | String | Alphanumerical | Null |
| User | Admin | email | String | Alphanumerical | Null |
| User | Admin | DOB | Date | 01/1/1900- today | Null |
| User | Admin | Group\_Name | String | “A-Z” | Null |
| User | Admin | Event\_Type | String | “A-Z” | Null |
| User | Admin | Wishlist | String | “A-Z” | Null |
| User | Admin | Special\_Date | Date | 01/1/1900- today | Null |
| User | Admin | First\_name | String | Alphanumerical | Null |
| User | Admin | Last\_name | String | Alphanumerical | Null |
| Admin | User | Admin\_Role | Boolean | True or False | Null |
| Admin | User | min\_dollar\_amount | Long | 0 - 9999 | 0 |

Data between **Administration Subsystem** and **Database Subsystem**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **From** | **To** | **Name** | **Type** | **Value Range** | **Default Value** |
| Admin | Database | Username | String | Alphanumerical | Null |
| Admin | Database | User\_ID | Int | 0 - 9999 | 1 |
| Admin | Database | Password | String | Alphanumerical | Null |
| Admin | Database | email | String | Alphanumerical | Null |
| Admin | Database | DOB | Date | 01/1/1900- today | Null |
| Admin | Database | Group\_Name | String | “A-Z” | Null |
| Admin | Database | Group\_ID | Int | 0 - 9999 | 1 |
| Admin | Database | Event\_Type | String | “A-Z” | Null |
| Admin | Database | Event\_Type\_ID | Int | 0 - 9999 | 1 |
| Admin | Database | Wishlist | String | “A-Z” | Null |
| Admin | Database | Special\_Date | Date | 01/1/1900- today | Null |
| Admin | Database | First\_name | String | Alphanumerical | Null |
| Admin | Database | Last\_name | String | Alphanumerical | Null |
| Admin | Database | min\_dollar\_amount | Long | 0 - 9999 | 0.00 |
| Database | Admin | Username | String | Alphanumerical | Null |
| Database | Admin | User\_ID | Int | 0 - 9999 | 1 |
| Database | Admin | Password | String | Alphanumerical | Null |
| Database | Admin | email | String | Alphanumerical | Null |
| Database | Admin | DOB | Date | 01/1/1900- today | Null |
| Database | Admin | Group\_Name | String | “A-Z” | Null |
| Database | Admin | Group\_ID | Int | 0 - 9999 | 1 |
| Database | Admin | Event\_Type | String | “A-Z” | Null |
| Database | Admin | Event\_Type\_ID | Int | 0 - 9999 | 1 |
| Database | Admin | Wishlist | String | “A-Z” | Null |
| Database | Admin | Special\_Date | Date | 01/1/1900- today | Null |
| Database | Admin | First\_name | String | Alphanumerical | Null |
| Database | Admin | Last\_name | String | Alphanumerical | Null |
| Database | Admin | Min\_price | Long | 0 - 9999 | 0.00 |
| Admin | Database | Password\_hash | String | Alphanumerical | Null |

Data between **User Subsystem** and **Gift Suggestion Subsystem**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **From** | **To** | **Name** | **Type** | **Value Range** | **Default Value** |
| User | Gift Suggestion | Wishlist | String | “A-Z” | Null |
| User | Gift Suggestion | min\_dollar\_amount | Long | 0 - 9999 | 0.00 |
| User | Gift Suggestion | Group\_name | String | “A-Z” | Null |
| Gift Suggestion | User | Wishlist\_Item | String | “A-Z” | Null |

Data between **User Subsystem** and **Email Notification Subsystem (Reminders, Notifications and Gift Suggestions)**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **From** | **To** | **Name** | **Type** | **Value Range** | **Default Value** |
| User | Email Notification | First\_name | String | Alphanumerical | Null |
| User | Email Notification | Last\_name | String | Alphanumerical | Null |
| User | Email Notification | email | String | Alphanumerical | Null |
| User | Email Notification | Special\_Date | Date | 01/1/1900- today | Null |
| User | Email Notification | Reminder | Int | 0-60 | 14 |
| Email Notification | User | Receiver\_First\_name | String | Alphanumerical | Null |
| Email Notification | User | Receiver\_Last\_name | String | Alphanumerical | Null |
| Email Notification | User | Group\_Name | String | Alphanumerical | Null |
| Email Notification | User | Item\_suggestions | String | “A-Z” | Null |

Data Between GiftPal and External System:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **From** | **To** | **Name** | **Type** | **Value Range** | **Default Value** |
| Admin | Docker | Admin | String | Alphanumerical | Null |
| Docker | Admin | key | String | Alphanumerical | Null |
| Admin | OpenAi | request | String | Alphanumerical | Null |
| OpenAi | Email Notification | Wishlist\_Item | String | Alphanumerical | Null |