Software document

iGroup

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# Introduction

## Purpose

Is the software that help collaboration works by connect all people on the same group project together, keep the communication, hold group plans and file sharing, which can increase teamwork efficiency.

## Scope

N/A

## References

* [Firebase Documentation](https://firebase.google.com/docs/)
* [Braintree Documentation](https://developers.braintreepayments.com/guides/paypal/overview/android/v2)
* [ZXing Documentation](https://github.com/zxing/zxing)

# Overall Description

## Software Perspective

* Simple GUI design should be friendly for all people.
* Function support for group work, project.

## Software Feature

The following list summarizes the main functions of the software:

1. Basic account function:

* Login.
* Logout.

1. Group project:

* Create group.
* Join group.
* Group chat.
* File sharing.
* To do list.

1. Upgrade premium account.

## User Requirements

N/A

## Operating Environment

* Android 8 and above.
* Tested device: S7 edge, Sony XZ, Galaxy S5

## Use Case

|  |  |  |
| --- | --- | --- |
| **ID** | **Actor** | **Name** |
| UC-1 | User | Login |
| UC-2 | User | Logout |
| UC-3 | User | Create group |
| UC-4 | User | Join group |
| UC-5 | User | Send message |
| UC-6 | User | Upload file |
| UC-7 | User | Upgrade premium account |
| UC-8 | User | Create to do list |
| UC-9 | User | View group chat |
| UC-10 | User | Update task stats |
| UC-11 | User | Remove task |

# Software Feature

## Login

|  |  |  |  |
| --- | --- | --- | --- |
| ID and name | UC1 – Login | | |
| Create by |  | Date create |  |
| Actor | User | | |
| Description | Authenticating user before using the app. User can either choose Google nor Facebook account to login. Take login token back save to database for future login. | | |
| Trigger | When open app. | | |
| Precondition | Haven’t logged in before. | | |
| Post condition | Move to home screen. | | |
| Normal flow | Open app. | | |
| Alternative flow | N/A | | |
| Priority | High | | |

## Logout

|  |  |  |  |
| --- | --- | --- | --- |
| ID and name | UC2 - Logout | | |
| Create by |  | Date create |  |
| Actor | User | | |
| Description | Exiting logged account from the app. | | |
| Trigger | N/A | | |
| Precondition | Logged in. | | |
| Post condition | Back to login sceen. | | |
| Normal flow | Tap logout. | | |
| Alternative flow | N/A | | |
| Priority | Medium | | |

## Create Group

|  |  |  |  |
| --- | --- | --- | --- |
| ID and name | UC3 – Create group | | |
| Create by |  | Date create |  |
| Actor | User | | |
| Description | Create a group chat room for group communication. | | |
| Trigger | N/A | | |
| Precondition | Logged in. | | |
| Post condition | New group created and added to group list. | | |
| Normal flow | Tap “plus” button.  Fill information.  Tap create group. | | |
| Alternative flow | N/A | | |
| Priority | High | | |

## Join Group

|  |  |  |  |
| --- | --- | --- | --- |
| ID and name | UC4 – Join Group | | |
| Create by |  | Date create |  |
| Actor | User | | |
| Description | Join existing group project. | | |
| Trigger | N/A | | |
| Precondition | Logged in.  Not the same group. | | |
| Post condition | New group added to group list. | | |
| Normal flow | Tap “QR Code” button.  Scan QR Code from other group member. | | |
| Alternative flow | N/A | | |
| Priority | High | | |

## Send Message

|  |  |  |  |
| --- | --- | --- | --- |
| ID and name | UC5 – Send Message | | |
| Create by |  | Date create |  |
| Actor | User | | |
| Description | Communicate with others user on the same group. | | |
| Trigger | N/A | | |
| Precondition | Logged in.  Joined a group. | | |
| Post condition | New message show on group chat. | | |
| Normal flow | Open a group.  Tap text box.  Type message.  Press send button. | | |
| Alternative flow | N/A | | |
| Priority | High | | |

## Upload File

|  |  |  |  |
| --- | --- | --- | --- |
| ID and name | UC6 – Upload File | | |
| Create by |  | Date create |  |
| Actor | User | | |
| Description | Sharing file with others user on the same group. For free user the file limit size is 5MB, premium user is unlimited. | | |
| Trigger | N/A | | |
| Precondition | Logged in.  Joined a group. | | |
| Post condition | New file uploaded to group chat. | | |
| Normal flow | Open a group.  Tap upload button.  Choose a file to upload. | | |
| Alternative flow | N/A | | |
| Priority | Medium | | |

## Upgrade Premium Account

|  |  |  |  |
| --- | --- | --- | --- |
| ID and name | UC7 – Upgrade Premium Account | | |
| Create by |  | Date create |  |
| Actor | User | | |
| Description | Upgrade to premium account, no upload limit; create to do list; create group plan. | | |
| Trigger | N/A | | |
| Precondition | Logged in. | | |
| Post condition | User have a yellow dot next to their avatar.  Able to upload file size more than 5MB.  Able to create to do list. | | |
| Normal flow | Open menu tab.  Tab upgrade account.  Choose paypal option.  Fill information. | | |
| Alternative flow | Open menu tab.  Tab upgrade account.  Choose card option.  Fill card information.  Tap upgrade button. | | |
| Priority | Low | | |

## 8. Create To Do List

|  |  |  |  |
| --- | --- | --- | --- |
| ID and name | UC8 – Create To Do List | | |
| Create by |  | Date create |  |
| Actor | User | | |
| Description | Create group to do list. | | |
| Trigger | N/A | | |
| Precondition | Logged in.  Premium Account. | | |
| Post condition | New task created. | | |
| Normal flow | Tap “To do list” on menu.  Tap button.  Fill information.  Tap Enter | | |
| Alternative flow | N/A | | |
| Priority | Low | | |

## 9. View Group Chat

|  |  |  |  |
| --- | --- | --- | --- |
| ID and name | UC9 – View Group Chat | | |
| Create by |  | Date create |  |
| Actor | User | | |
| Description | View group chat. | | |
| Trigger | N/A | | |
| Precondition | Logged in.  Joined a group. | | |
| Post condition | Display group chat. | | |
| Normal flow | Open a group. | | |
| Alternative flow | N/A | | |
| Priority | High | | |

## 10. Update task stats

|  |  |  |  |
| --- | --- | --- | --- |
| ID and name | UC10 – Update task stats | | |
| Create by |  | Date create |  |
| Actor | User | | |
| Description | Update task stats to completed. | | |
| Trigger | N/A | | |
| Precondition | Logged in.  Premium account.  Have at least 1 task created. | | |
| Post condition | Task color change  Task stats change | | |
| Normal flow | Tap “to do list” on menu.  Tap a task on the list.  Tick “Mark as finish”  Tap “OK” | | |
| Alternative flow | N/A | | |
| Priority | Low | | |

## 11. Remove task

|  |  |  |  |
| --- | --- | --- | --- |
| ID and name | UC11 – Remove task | | |
| Create by |  | Date create |  |
| Actor | User | | |
| Description | Remove task from the to do list. | | |
| Trigger | N/A | | |
| Precondition | Logged in.  Premium account.  Have at least 1 task created. | | |
| Post condition | Task removed from list. | | |
| Normal flow | Tap “to do list” on menu.  Tap a task on the list.  Tap “Remove” | | |
| Alternative flow | N/A | | |
| Priority | Low | | |