

# Plain Plane

## Requirements and Specification

Rev. 1.1 2017-11-20 – second version

### Revision Bullet List

- Abstract – Replying to the writings is updated. (removed reward part)
- Abstract – Appreciating pictures of sky is updated. (modified photo list part)
- User stories – story 15 is updated.
- User stories – story 16 is added.
- User stories – upcoming stories are updated. (removed reward part, added image detection part)
- User interface is updated.

### Members

### Abstract

“Plain Plane” will provide a service for people to share honest feelings and thoughts anonymously. Here is our catchphrase:

*“People plain about their feelings and thoughts on a plain paper,  
fold up a paper plane with it, fuel up with plain yogurt, and fly it to the sky.”*

There are mainly three parts: writing new content, replying to the writings, and appreciating pictures of sky.

- Writing new content (for registered users only): Users can write about their feelings and thoughts. After writing, users take a picture of the sky where their plane will fly through (which can be skipped), and leave hashtags of the contents. When there is a reply, users evaluate it, which affects the user level of the replier.

- Replying to the writings (for registered users only): Users can reply to the plane based on the radar or random plane list. Users can decide which plane to pick and reply by looking at the hashtags.
- Appreciating pictures of sky (for all users): Users can view all photos randomly or search photos by color. (Logged in users can also upload the photos)

And here is some additional information:

- Flavor of the yogurt indicates user level. The number of writing and replying per day, and the lifetime of the plane vary based on the flavor.
- Users can buy a cup of yogurt to service developers.

## Customer

All those modern people who are living tough days are our beloved customers. These people may want to share their feelings and thoughts, and comfort each other. General social media, however, where people inevitably expose and are exposed to glamorous lives, doesn't meet their needs. "Plain Plane" is the perfect place for them.

## Competitive Landscape

Current #1 company is NRISE which owns healing SNS service (MOCI) with about 5,000,000 downloads (Google Play). #2 company is AROUND (owned by CONBUS) with about 1,000,000 downloads (Google Play).

The core differentiation between these two services and ours is that the service is level based. User level is eventually formed by another users' evaluation, and flavor of yogurt is visible through plane. People will try to achieve more delicious flavor so that they can communicate lively (people may want to fly more planes and pick up a plane flown by trustworthy user), which will lead to self-purification.

Another core differentiation is "analog esthetic". Instead of offering bunch of communication channels, paid themes and diverse options, "Plain Plane" offers extremely simple functionalities, and even impose constraints on them: one-to-one talk by sending letter in paper plane form with pictures of sky, limitation on the number of writing and replying, and finite lifetime of writings.

These constraints are based on Philip Kotler, an American marketing author and economist. In his book, "Marketing 4.0", he examines the paradoxes wrought by connectivity. First paradox is that

people feel lonelier because they are connected. People have more than one account for SNS which links them to others 24/7. By looking at and joining in numerous communications makes people feel left out, eventually makes them feel more solitary. Another paradox is that communicating with others became harder due to the connectivity. Now there are tons of communication channels, which should make communication easier. Ironically, however, the more communication channels people have, the less communications people actually have with each other.

In era of fourth industrial revolution, connectivity will be more reinforced and this kind of paradox will be more intensified. Only those services that understand and manage the problem will gain a competitive advantage.

## User Stories

- Actors: Regular user
- Story 1 – Main Page
  - Feature: Sign in
  - Scenario: Sign in and go to Reply page
  - Acceptance Test:
    - Given I am on the main page
    - When I type my id in the id box
    - And I type my password in the password box
    - And I click the sign in button
    - Then I should be signed in
    - And I should be in Reply page
  - Iteration: Sprint 2
- Story 2 – Main Page
  - Feature: Sign up
  - Scenario: Sign up and go to Reply page
  - Acceptance Test:
    - Given I am on the sign up page

**When** I type my id in the id box

**And** I click the duplicate check button

**Then** I should see a popup that I can use the ID

**When** I type my password in the password box

**And** I type captcha

**And** I click the sign up button

**Then** I should be signed up

**And** I should be in Reply page

- Iteration: Sprint 2

- Story 3 – Main Page

- Feature: Go to About Us page
- Scenario: Go to About Us page
- Acceptance Test:

**Given** I am on the main page

**When** I scroll down

**Then** I should see About Us page

- Iteration: Sprint 2

- Story 4 – Reply Page

- Feature: See planes from 'Everywhere' and 'Near me'
- Scenario: A user who don't accept location service only can see planes from 'Everywhere'
- Acceptance Test:

**Given** I don't accept location service

**When** I am on the reply page of 'Everywhere'

**Then** I should see planes from everywhere on the page

**When** I click the 'Near me' tab

**Then** I should see an alert asking if I use the location service

- Iteration: Sprint 3
- Story 5 – Reply Page
  - Feature: See planes from 'Everywhere' and 'Near me'
  - Scenario: A user who agree to location service see planes near him
  - Acceptance Test:
    - Given I agree to location service
    - And my location is 'Seoul'
    - When I am on the reply page of 'Near me'
    - Then I should see planes from 'Seoul' on page
- Iteration: Sprint 3
- Story 6 – Reply Page
  - Feature: See planes from 'Everywhere' and 'Near me'
  - Scenario: A expired plane can't be displayed on page
  - Acceptance Test:
    - Given A plane tagged with 'date' expires
    - When I am on the reply page of 'Everywhere'
    - Then I should not see a plane tagged with 'date'
- Iteration: Sprint 3
- Story 7 – Reply Page
  - Feature: Open and reply to the plane
  - Scenario: Click a plane that the writer uploaded sky image to see the content of it
  - Acceptance Test:
    - Given I am on the reply page of 'Everywhere' containing such a random plane
    - When I click a plane tagged with 'love'
    - Then I should see an alert which confirms using my chance to see a plane
    - When I agree to use my chance to see a plane

**Then** I should see the hashtag and content of it

**And** background should change to sky image the writer uploaded

- Iteration: Sprint 3

- Story 8 – Reply Page

- Feature: Open and reply to the plane
- Scenario: Click a plane that the writer didn't upload sky image to see the content of it
- Acceptance Test:

**Given** I am on the reply page of 'Everywhere'

**When** I click a plane tagged with 'work'

**Then** I should see an alert which confirms using my chance to see a plane

**When** I agree to use my chance to see a plane

**Then** I should see the hashtag and content of it

**And** background should change to random sky image

- Iteration: Sprint 3

- Story 9 – Reply Page

- Feature: Open and reply to the plane
- Scenario: Reply to the plane
- Acceptance Test:

**Given** I see the content of a plane

**When** I write a message

**And** I push 'reply' button

**Then** the writer of a plane gets a reply

- Iteration: Sprint 3

- Story 10 – Reply Page

- Feature: Open and reply to the plane
- Scenario: A user used all chance to see planes can't see a plane more

- Acceptance Test:

**Given** I used all chance to see planes

**When** I click a plane

**Then** an alert informing that a user used all chance to see planes pops up

**And** I should not see the content of a plane

- Iteration: Sprint 3

- Story 11 – Write Page

- Feature: Upload the sky image
- Scenario: Click 'Change the Sky Image' button
- Acceptance Test:

**Given** I am on the write page

**Then** I see 'Change the Sky Image' button

**When** I click 'Change the Sky Image' button

**Then** I should see a popup to upload new sky image

- Iteration: Sprint 3

- Story 12 – Write Page

- Feature: Upload the sky image
- Scenario: Upload new sky image
- Acceptance Test:

**Given** I see new sky image upload popup

**When** I upload new sky image

**And** I click the 'done' button

**Then** the new sky image should be sent to the server

**And** I should see the write page

**And** the background should be changed to the uploaded image

**And** the content and hashtag textbox should remain unchanged

- Iteration: Sprint 3
- Story 13 – Write Page
  - Feature: Fold the plane
  - Scenario: Fold the plane with content and hashtag
  - Acceptance Test:
    - Given I am on the write page
    - And the content and hashtag textbox are filled
    - When I click 'fold' button
    - Then the content and hashtag information should be sent to the server
    - And the foldable plane number should be decremented by one
    - And I should see the reply page
- Iteration: Sprint 2
- Story 14 – Gallery Page
  - Feature: See photos of sky
  - Scenario: Click the photo and see the photo in a bigger size
  - Acceptance Test:
    - Given I am on the Gallery page and seeing a list of photos of skies
    - When I click one photo in the list
    - Then I should see the photo in a bigger size
- Iteration: Sprint 4
- Story 15 – Gallery Page
  - Feature: See photos of sky
  - Scenario: Change the sorting color of the photos
  - Acceptance Test:
    - Given I am on the Gallery page and seeing a list of photos of skies
    - When I click 'Red' button



Then I should see a list of photos that sorted by red color

- Iteration: Sprint 4

- Story 16 – Gallery Page

- Feature: See photos of sky
- Scenario: Refresh the photo list
- Acceptance Test:

Given I am on the Gallery page and seeing a list of photos of skies

When I click 'Refresh' button

Then I should see refreshed list of photos

- Iteration: Sprint 4

- Story 17 – Gallery Page

- Feature: Upload photo
- Scenario: Click 'Upload' button and see Pop-up of uploading page
- Acceptance Test:

Given I am on the gallery page

When I click 'Upload' button

Then I should see pop-up of uploading page

- Iteration: Sprint 4

- Story 18 – Gallery Page

- Feature: Upload photo
- Scenario: Upload the photo
- Acceptance Test:

Given I am on the uploading page

When I upload new sky image

And I typed hashtags about my feelings

And I click 'done' button

Then my photo should be posted to the server

And the foldable plane number should be decremented by one

And my photo should be displayed for every user

- Iteration: Sprint 4
- Upcoming stories
  - Feature: Change distance range of radar ('Near me' of Reply Page)
  - Feature: Buy a cup of yogurt to service developers
  - Feature: Block non-sky image

# User Interface

