**Plain Plane**  
Requirements and Specification

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Members

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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 map. Users can decide which plane to pick and reply by looking at the hashtags. Repliers will get wise saying as a reward.
* Appreciating pictures of sky (for all users): Users can view all photos or search photos by color, weather or hashtags. (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, administrator
* Story 1
* Name: User Login
* Actors: Regular user
* Preconditions: The user must be registered to the service.
* Triggers: The user fills out ID and password fields, and clicks on the “Sign In” button.
* Actions

1. Check whether ID and password form is correct or not in frontend.
2. If form is correct, check whether typed information is valid or not in backend.
3. If information is valid, ask whether the user will provide his(her) location or not.

* Postconditions

1. If login failed, inform the user that he(she) failed to login.
2. If login succeeded, remove input fields from main page and put buttons to navigate the page.
3. If the user allowed to provide location, the picture used in main page is changed to the picture shot near him(her).

* Acceptance Tests

1. Given that the user is registered and the user has fill out all the required fields with valid information. When the user clicks on the “Sign In” button, then the user should see buttons to navigate. If the user allowed to provide location, then the user should see pictures of sky shot near him(her).
2. Given that the user has fill out fields incorrectly. When the user clicks on the “Sign In” button, then the user should see the sign that he(she) failed to login.

* Iteration: sprint 1
* Story 2
* Name: Write New Content
* Actors: Regular user
* Preconditions: The user must be signed in to the service. The user has not exceeded the limit of the number of writing per day.
* Triggers: The user fills out content field with their feelings and thoughts and create hashtags about content. He/she may change the background picture of sky using “Change Sky” button. If everything has been done, the user clicks on the “Fold” button.
* Actions

1. Get the user’s location and display the sky in the location as a background picture.
2. Put a paper on the sky that the user can write the content and create hashtags on.
3. If the user clicks “Change Sky” button and upload the photo, check whether the image is valid and compact so that the backend can manage it.
4. If the user clicks “Fold” button, check whether content is not empty in frontend.
5. Save the content in backend and display the process of folding the plane and flying through the sky.

* Postconditions

1. If the user has exceeded the limit of the number of writing per day, notify the user that he/she has exceeded the limitation.
2. If image is invalid, inform the user that the image is not valid.
3. If the user clicks “Fold” button without any content, inform the user that there should be a content.
4. After displaying the process, navigate to the main page.

* Acceptance Tests

1. Given that the user is signed in and has not exceeded the limit of the number of writing per day. The user should access the “write” page.
2. Given that the user is in the “write” page. The user clicks “Fold” button without any content, the request should be rejected.
3. Given that the user is in the “write” page. The user clicks “Change Sky” button and uploads the picture which is too large, the picture should be rejected.
4. If every request is valid, the new content should be created in backend. The user should be navigated to the main page

* Iteration: sprint 1, 2
* Upcoming stories