

- Communications protocol

Description	Frequency	Channel	Audience	Owner
Project status updates	Weekly	Email/ Face2Face	Customer, project team member	Tsui Sung Fong
Project team meeting	Weekly	Discord	All project team members	CHEUNG Ka Ho
Milestone and deliverable update	As needed	Whapp	All project team member	Tsui Sung Fong

- Project Objectives

1. Make a lightweight system.
2. Easy to deploy by editing the config file. (With the user guide)
3. Volunteers can use an android app for doing the survey details.
4. With an android app that is easy to use.
5. Surveyors keep records in a convenient and reliable way

- Requirements

1. Creature System:

a. Database

- i. Can process data from multiple users
- ii. Use RESTful API to process data(allow multi-platform)
- iii. (Table) The creature
 1. multi-language with scientific name
 2. details information
 3. details from survey report
 4. allow update
- iv. (Table) Comment blog
 1. Allow user to upload command with the post.
 2. Admin can remove or hidden user command
- v. (Table) Survey report
 1. Uploaded by volunteer
 2. linked with photo/video on server or another related file system
 3. Verify volunteers that can update by admin manually.
- vi. Volunteer can access their own data, and create/update their own survey report.
- vii. Can export and import TSV format data by NGO

b. Comment blog

- i. Post by volunteer, they can upload their Survey records without review manually.
- ii. Volunteers or the public can access this blog and people with accounts can let down their comments.

- c. Client site:
 - i. Mobile/tablet app:
 - 1. User friendly, follow UX design platform
 - 2. Can temporarily store in the device, always online is not needed.
 - ii. Survey report
 - 1. In the Survey report, provide a predefined species list for entry.
- 2. Permission(System role):
 - a. System Admin
 - i. All professional permission.
 - ii. Full control of system
 - iii. Delete any records and post
 - b. Professional
 - i. All volunteer permission.
 - ii. Review posts for publishing or input into verified creature database.
 - iii. Edit the creature's scientific name in the database.
 - c. Volunteer(experience user)
 - i. Survey records details can be uploaded to the database(need review by professional first)
 - ii. Read public creature data from the database.
 - d. Normal User
 - i. Upload post
 - ii. Delete owned post
 - iii. Comment on other post
 - iv. Submit data to the server, but need approval.
 - v. Can edit delete the data that submit by them
- 3. User device:
 - a. Can access data with phones
 - b. Can access data with PC
- 4. UI:
 - a. Post screen
 - i. Post function
 - ii. Post can attach multimedia
 - b. Bird data screen
 - i. Search function
 - c. Login screen
 - d. Account screen
 - e. Submit screen
 - i. User can attach multimedia
 - ii. Export to TSV
 - iii. Import from TSV
 - iv. Submitted records
 - 1. Search function
 - f. Approve screen
 - g. Agreement screen
 - h. Terms screen
 - i. Setting screen