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|  | **MINISTRY OF EDUCATION AND TRAINING** |

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| **FPT UNIVERSITY** |
| Capstone Project Document |
| Gunpla World Application |
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| |  |  | | --- | --- | | **Team 15** | | | **Group Members** | Hoàng Ngô Minh Tùng – Role 1 – SE62231  Nguyễn Bảo Khánh – Role 2 – SE61978  Lê Nguyễn Ngọc Sang – Role 3 – SE61647 | | **Supervisor** | Phạm Công Thành | | **Ext Supervisor** |  | | **Capstone Project code** |  | |
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– TP.HCM, 09/2018 –

**A. Report No.1: Introduction**

1. **Project Information**

* Project name: **Gunpla World Application**
* Project code:
* Product Type: **Web app, Mobile app**
* Start Date: 10-Sep/2018
* End Date: 18-Dec/2018

1. **Introduction**

In this document, we introduce a hangout place for Gunpla builders community and fans. Gundam models, as well as the hobby of assembling and painting them, is known in Japan as **Gunpla**, aportmanteau of "*Gun*dam *pla*stic model".

The number of people who take up Gunpla as a hobby is increasing rapidly day by day, as well as the hobby of assembling and painting plastic models. Based on our researches and analysis, we realized that it is inconvenient for users to find information about Gunpla or to search for already-built Gunpla model or a specific part from it, which have been built or painted by other Gunpla builders.

We build a system to make it easier and more convenient for people who want to purchase Gunpla from other hobbyist or to find useful information about Gunpla. We have searching mechanism to search for users who need to exchange their products within the required or nearest range, so that buyers can seek for sellers easier. We also create a playground for Gunpla builders to share their achievements as well as experience, provide information of the Gunpla world and especially attend events, contests, or even propose them. We believe this system will attract lots of Gunpla builders and bring them closer together.

This document contains our perspective in the system, requirement analysis, component design and detailed core workflow. Our hope is that the system will bring the Gunpla community and people looking into the hobby information and new experiences .

1. **Current Situation**

People who have just taken up the hobby will have to search for information from many resources to resolve their questions about what Gunpla is, how to assemble or to paint them. They may also want to look for a particular Gunpla model's information, or guides and tutorial. Many Gunpla builders also look for forums to share their experience and events or contests to express their talents.

Gunpla owners may also want to exchange their models or parts with other people. There are few e-markets for exchanging Gunpla, the most popular one being Facebook groups.

1. **Problem Definition**

Inconvenience in searching exchangeable Gunpla: when people wants to purchase certain Gunpla parts or a finished Gunpla model assembled by other builders, they will usually post their intentions on certain Facebook groups. The sellers will comment on that post and offer their price. The same situation will happen when people want to sell their products, with the buyer commenting on the sellers’ post. However, in the case of when there are a large number of posts, without searching mechanism using filters it maybe difficult for the buyers to search for what they want, this also could lead to spamming. This could leads to a lot of problems like misinformation or scam due to the way Facebook groups are moderated.

1. **Proposed Solution**

We proposed a solution is to build a system named "Gunpla World Application" to resolve the current situation and also continue to develop the application, making it more convenient, improving user experience and satisfying the customers.

GWA includes a web application and a mobile application with following functions:

**5.1 Feature functions**

Web/Mobile Application:

* Search for exchangeable Gunpla models or parts filtered by name and location suggestion
* Proposals to open events/contests
* Create events/contests
* Search for events, contests with location suggestion
* Crawl data from Gundam corporations’ websites

**5.2 Advantages and disadvantages**

Advantages:

* It's now easier and more convenient for people who need to exchange Gunpla through the exchange forum when there are filters and location suggestions.
* Gunpla fans can propose to open events, contests by their creative opinions.
* Provide integrated Gunpla information: each Gundam model may have guides and detailed information. This is convenient for newbies who have just taken up the hobby.

Disadvantages:

* Don’t have anti-spam mechanism
* Top rating may not be accurate

1. **Functional Requirements**
2. **Gunpla model:**

User component:

* Search for gunpla model’s information

Staff component:

* Crawl data
* Add/modify/delete gunpla model’s information

1. **Information article (tutorial, sharing experience):**

User component:

* Search for information article
* Add/modify/delete the user’s own information article

Staff component:

* Approve/modify/delete member’s information article
* Add/modify/delete staff’s own information article

1. **Event:**

User component:

* Search events/contests using filters and location suggestion
* Proposals to open events/contests, prizes
* Register events/contests
* Evaluate by star ratings & feedback for events/contests
* View own proposals history

Staff component:

* Approve proposals to open events/contests, prizes
* Manage event calendar, location
* Add/modify/delete events/contests and rewards
* View all members’s proposals history

1. **Exchange:**

User component:

* Search exchangeable gunpla by filters and location suggestion
* Evaluate by star ratings & feedback for the exchange
* Add/modify/delete post for exchanging gunpla
* Report the exchange post
* View own exchange history

Staff component:

* Approve/modify/delete seller’s post for exchanging gunpla
* View member’s reports on exchange post
* View all members’s exchange history

1. **Report:**

* List proposals sort by time
* List exchange sort by time and good rating/feedback
* List events/contests with winners sort by time and good rating/feedback

1. **Role and Responsibility**

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