**Teamwork IV. (Requirement Analysis)**

**Team 7 Members:**

Binh Bui – e1300518

Nguyen Cong Danh – e1400467

Thanh Vuong – e1400489

1. **What are the relevant objects?**

User, Thread, Message, Relation, Contacts

1. **What are the main attributes and behavior (functions, methods) of each object?**

* User:
  + Attributes: Personal info (name, location, age, sex, religions, photos, hobbies), Preferences (age, sex, religion…)
  + Behaviors: Can show interest in other users, message to other registered users, discover other profiles and see them, block other users, Show other users based on locations.
* Contact:
  + Attribute: User, Online Status, Last online date
  + Behavior: Show list of users (online and offline)
* Thread:
  + Attributes: Users, Messages
  + Behaviors: Appear on top if new message in thread, should show all the messages between users
* Message:
  + Attributes: Content, Date, “Seen” Status
  + Behaviors: Changing color depends on if it’s the sender or receiver, can be deleted
* Relations:
  + Attributes: Mutual Interest
  + Behaviors: show mutual preferences

1. **Prepare the list of requirements and categorize them according to quality function deployment (QFD) into normal, expected and extra requirements.**

* Normal requirements:
  + Able to register
  + Personal profile
  + List of other profiles
  + Can message each other
  + Can like or dislike
  + Can see other profiles’ photos
  + Can see mutual interest
  + List of online users and their last sign-in dates
  + Log-in through social medias platform (Facebook, Google Plus)
  + Profile privacy
* Expected requirements:
  + A WAR package ready to be deployed
  + Necessary Documents (User manuals, Report, System architecture)
  + Manageable and upgradable code.
  + Simple design with minimum detail on the front page
  + The whole website should be loaded in under 3s
* Extra requirements:
  + Send digital gifts
  + Smartly categorize people based on mutual interest and near locations.
  + Pay to use the service
  + Advertisement

1. **Define the application validation criteria?**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Submission Information | Functions | Content | Usability | Programming Language |
| Provide enough information before being able to use the application | Being able to sign up/log in  Can search other user and message  Can see other based on perferences | Healthy Content, No Sexual, Discrimination Content allowed | Responsive design for multiple browsers, devices | To be implemented in Java |