

Course: Software Engineering Project

Investigation and Assessment: Chao Li, Bing Li

We were assigned to do investigation and assessment to adding other diagrams (use case, sequence) into the existing project of ClubUML.

After doing research about adding other diagrams into the project, I got the scope definition as followings:

1. Use case:

Evaluation Criteria:

(a) Do not have too many CRUD (such as create, read, update, delete) in a use case. Otherwise the use case will be unclear or too complex.

We can create policy to set number of the actions between a reasonable ranges.

(b) Be careful with "If sentence".

Too many "if statement" may lead to confusion, so we need to create policy to constraint number of "if statement".

(c) Pay attention to missing association between system and actors.

We should make sure there is no isolated action in use case diagram.

Difficulty of Algorithm to this function: ★★☆☆☆ (Normal)

2. Sequence diagram:

Evaluation Criteria:

(a) Number of actors, objects, messages: These numbers could be evaluated by policy.

(b) Sequence of actors and objects: We can create policy to set the sequence of each actor and object.

(c) Message: Setting number of messages between each actor and object by policy. Send and Return message should follow the policy.

Difficulty of Algorithm to this function: ★★★★★ (Hard)