

111 Spring DBMS Final Project

Crowdfunding Platform

Examples of Crowdfunding Platforms

- <https://www.kickstarter.com/>
- <https://www.zeczec.com/>
- <https://www.flyingv.cc/>
- <https://wabay.tw/>

Scenario – Non-Member

George wants to build up a **crowdfunding platform**. The following description applies all users who have not registered and logged in as members of the platform:

1. The homepage would list the most popular proposals, and the popularity indicates the number of clicks.
2. Users can search for proposals with keywords on the platform.

Scenario – Members

George wants to build up a **crowdfunding platform**. The following description applies all members who have registered on the platform and are logged in:

1. The homepage would list the proposals followed by the member and those recommended by the system, both are listed by category.
2. Members may follow one or multiple proposals.
3. Members may interact with the proposer by leaving the comment in the proposal comment area.
4. A member may also be a proposer.
5. Members may sponsor one or multiple proposals.

Scenario – Members

George wants to build up a **crowdfunding platform**. The following description applies all members who have registered on the platform and are logged in:

6. Members are allowed to sponsor a proposal multiple times.
7. Members may only sponsor ongoing/active proposals.
8. After the proposer makes a proposal, it must be reviewed by the platform before being displayed on the webpage.
9. Proposers may edit the proposal content, FAQ and reply to comments after the proposal is published.
10. After the proposer creates a proposal, he/she can invite other members to become co-proposers, who can also edit the content of the proposal, FAQ, and reply to messages.

Scenario – Members

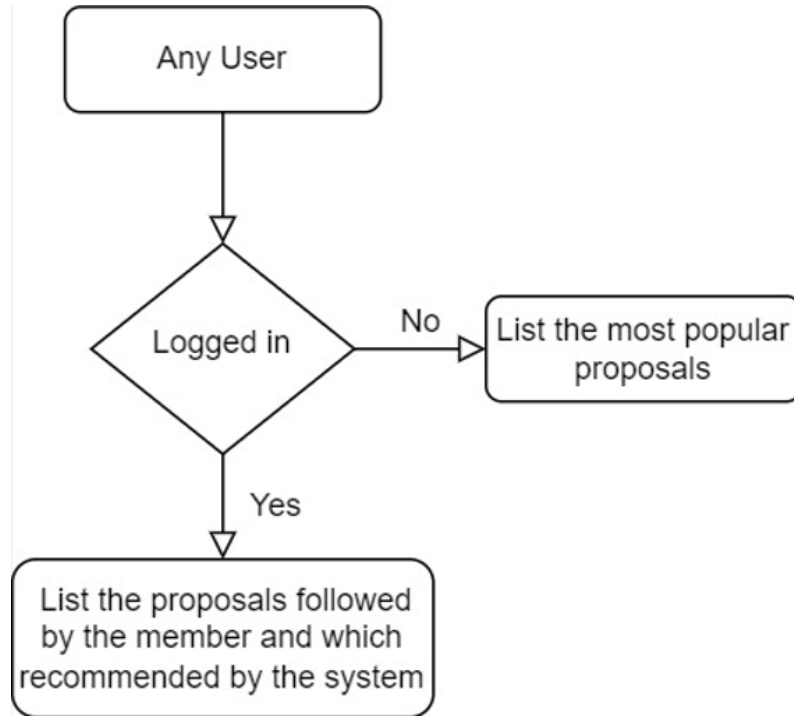
George wants to build up a **crowdfunding platform**. The following description applies all members who have registered on the platform and are logged in:

11. Each proposal has 90 days period for fundraising, after which the system would forcibly stop the proposal, but if 90% of the target amount has been raised at the end of the 90 day period, the proposal is automatically extended for another 30 days. The extension is applied only once.
12. There are only three proposals status: (1)UNDER-REVIEWING (2)ONGOING and (3)EXPIRED; the status can only be updated in the order of $1 \rightarrow 2 \rightarrow 3$.
13. Members may follow proposers.

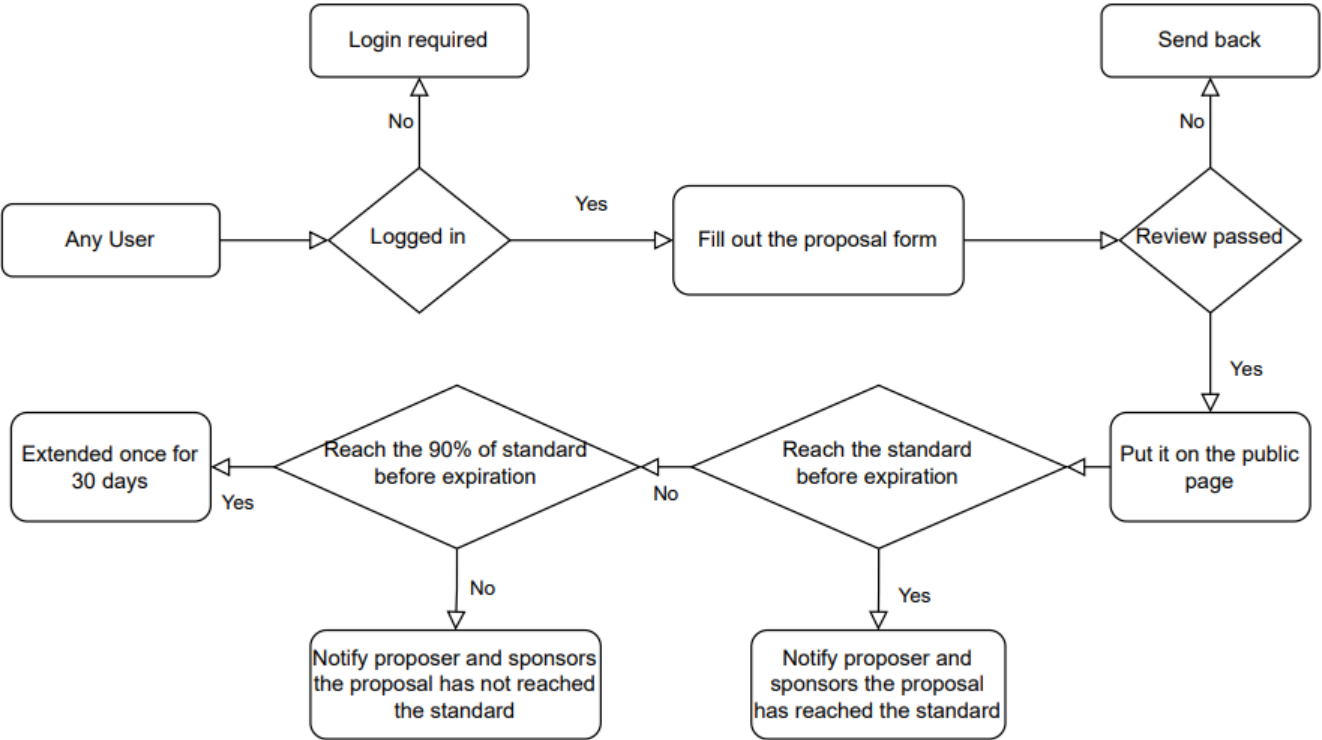
Entities

- Member(proposer)
- MemberCredential
- Proposal
- ProposalOption (Product under a given proposal)
- Comment
- FAQ
- SponsorRecord (record of which proposal option the member sponsored)
- FollowingRecord
- ProposalMember
- Category

Flow Chart - Home Page



Flow Chart - Proposal Process



Business logics

- A user can only have one account.
- A member may also be a proposer.
- Members must be logged in to propose, comment, and sponsor.
- Members can comment on multiple proposals and proposers can reply.
- Each comment would only have one corresponding reply.
- Proposals that have not yet expired are eligible for member sponsor.
- A member may sponsor multiple proposals.
- A member may have multiple proposals.
- A proposal would have one or more products (proposal options), each product would only appear in one proposal.

Business logics

- A proposal may associated with multiple proposers.
- A member may follow multiple proposals, and each proposal could be followed by multiple members.
- Proposer could update proposals, reply to comments, add/modify/delete FAQs.
- Proposal has only one unique proposal ID.
- After expiration, proposals that have accumulated more than 30 days would be deactivated by the platform.