CmpE 352 Spring 2020 Group 6 – Milestone 1

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# **1. Executive Summary**

## **1.1 Summary of Project Status**

## **1.2 Planned for Moving Forward**

# **2. List and status of deliverables**

-Communication plan

-Requirements

-Scenarios and Mockups

-UML Software Designs

-Project plan & RAM

# **3. Evaluation of the status of deliverables and its impact on your project plan**

# **4. Evaluation of tools and processes you have used to manage your team Project**

Github – Doğu

-ProjectLibre is an old fashinoned Project Management software. It is hard to use and not very intuitive. Printing or saving as pdf is also very problematic. Learning and using is hard as well.  
But since ProjectLibre is an open source, freely available project management software it is a great oppurtunity for people since it is one of the first freely available Project Management softwares.

MockFlow - Tuba

LucidChart - Cemre

Slack - Gülperi

Zoom - Enes

# **5. Summary of work done**

|  |  |
| --- | --- |
| Group Member | Contribution |
| Ahmet Berat Can |  |
| Doğukan Kalkan |  |
| Emilcan Arıcan |  |
| Muhammed Enes Toptaş |  |
| Ezgi Gülperi Er |  |
| Tuba Çibuk |  |
| Hamza Işıktaş |  |
| Hazer Babur |  |
| Ömer Faruk Özdemir | Managed Meetings, created Meeting Notes and created issues weekly.  Arranged meeting topics and agendas.  Contributed in creating communication plan.  Contributed in user requirements.  Kept track of Diagrams progress and  compatibility.  Created issues with distributable tasks for feedbacks.  Kept track of general progress and deadlines.  Created most of the Project Plan.  Created backend template in flask. |
| Salih Can Özçelik |  |
| Cemre Efe Karakaş |  |

# **6. Communication plan**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Where** | **Purpose** | **Frequency** | **Audience** | **Channel** |
| Slack | Keeping each other informed about progress | Anytime | All members | Online |
| Github | Following Overall Work / Issue Management | Every Thursday @ 12 PM | All members | Face-to-face |
| Bogazici University, Cmpe Building, BM A5 | Weekly Review | Every Thursday @ 12 PM | All members | Face-to-face |
| Bogazici University, Cmpe Building, BM Classes | Customer Meeting | When Needed | Some members | Face-to-face |
| Whatsapp | Urgent Communication | Anytime | All members | Online |
| Piazza | Communication With The Customer | Anytime | All members | Online |
| Zoom | Weekly Review | Every Thursday @ 12 PM | All members | Online |

# **7 . Requirements**

# Glossary

* **1. User:** A person capable of contributing to or collaborating with others Projects/Papers, and has their own profile page. Authentication is required. There are 2 types of users, personal and corporal(institutional).
* **2. Collaborator:** A user that participates a project/paper.
* **3. Profile Page:** Page that users shall be able to share information about themselves.
* **4. Events:** The news about upcoming conferences, meetings and important dates.
* **5. Guest:** The user who is able to view Projects/Papers and see people's profile pages. No Authentication is required.
* **6. Profile:** A visual display of personal data associated with a specific user.
* **7. Search:** Find semantically similar users and Projects/Papers on the context information provided in the semantic tags.
* **8. Password:** Consists of at least six characters (the more the merrier) that are a combination of letters and numbers.
* **9. Projects:** Long-term works that involve milestones, business packages, deadlines.
* **10. Papers:** Short-term works that contain original research results or review existing results or show a totally new invention.
* **11. Basic Search:** Only text matching based search.
* **12. Tag:** Small labels that indicates related aspects of an project/paper.
* **13. Report System:** System that allows users to report problematic cases.
* **14. Notification:** Message that informs the user about a specific event.
* **15. Recommendation System:** System that recommends contents, papers, and project that user might interested in.
* **16. Conference:** An event where researchers in a field meet, present and discuss their researches.
* **17. Student:** Users that continues their education.
* **18. Academician:** Users that are not student.

# **Project Requirements**

## **1. Functional Requirements**

### ****1.1 User Requirements****

* + **1.1.1** Users shall be able to search and view users, public papers and projects
  + **1.1.2** Users shall be able to view profile pages of authors, and collaborators of papers and projects
  + **1.1.3** Users shall be able to search related information about the upcoming conferences or journal special issues

#### **1.1.4 Guests**

* + - **1.1.4.1** Guests shall not be able to view private papers or projects.
    - **1.1.4.2** Guests shall not be able to join papers/projects, comment to papers/projects or post new papers/projects.

#### **1.1.5 Registration**

* + - **1.1.5.1** Users shall be able to register by providing name, surname, unique email address and password
    - **1.1.5.2** Users shall validate the e-mail address for completing the registration phase
    - **1.1.5.3** Users shall be able to specify the research interests
    - **1.1.5.4** Users shall provide the information about affiliation
    - **1.1.5.5** Users shall be able to identify themselves as student or academician

#### **1.1.6 Registered Users**

* + - **1.1.6.1** Users shall login by email and password provided
    - **1.1.6.2** Users shall be able to state whether s/he is looking for a project to collaborate
    - **1.1.6.3** Users shall be able to send request to join the team
    - **1.1.6.4** Users, as the owner of the projects, shall be able to accept or reject requests to join the team
    - **1.1.6.5** Users shall be able to invite any user to participate
    - **1.1.6.6** Users shall be able to accept or reject invitations
    - **1.1.6.7** Users shall be able to rate and comment other users that s/he collaborated with during the collaboration and after the project is completed
    - **1.1.6.8** Users shall be able to collaborate on more than one paper/project
    - **1.1.6.9** User shall be able to disable join requests to end call for collaboration phase
    - **1.1.6.10** Users shall be able to have more than one paper/project topic posted
    - **1.1.6.11** Users shall be able to specify a deadline for the paper/project
    - **1.1.6.12** Users shall not be able to delete a paper/project that is in progress
    - **1.1.6.13** Users shall be able to file complaints
      * **1.1.6.13.1** Users shall be able to report another user, a project or a paper for unwanted/inappropriate behavior
      * **1.1.6.13.2** Users shall be able to mark a publication as unrelated
    - **1.1.6.14** Users shall be able to follow other users on the platform.
      * **1.1.6.14.1** Users shall be able to approve/reject follow requests.
      * **1.1.6.14.2** Users shall be able to set visibility of their projects/papers for the users not following them.
      * **1.1.6.14.3** Users shall be able to request to join a project/paper if they can see it.
      * **1.1.6.14.4** Users shall be able to invite other uses to collaborate, without following them.
    - **1.1.6.15** Users shall be able to set their profiles to public or private.
    - **1.1.6.16** Users shall be able to log out from his account.
    - **1.1.6.17** Users shall be able to delete his account.
    - **1.1.6.18** Users shall be able to delete or update a comment s/he made before.
    - **1.1.6.19** Users shall be able to delete or update a rate s/he gave before.
    - **1.1.6.20** Users shall be able to add additional files to the collaborated projects/papers.
    - **1.1.6.21** Users shall be able to add additional files to their projects/papers in progress.

#### **1.1.7 Registered Users Requirements**

#### **1.1.7.1 Profile Page**

* + - * **1.1.7.1.1** Users shall be able to provide information about the research area, recent publications and affiliation.
      * **1.1.7.1.2** Users shall be able to link their Google Scholar or ResearchGate accounts.
      * **1.1.7.1.3** Users shall be able to edit their own profile page.
      * **1.1.7.1.4** Users shall be able to see invitations that are sent from the other users.
      * **1.1.7.1.5** Users shall be able to see messages that are sent from the other users.
      * **1.1.7.1.6** Users shall be able to see ratings and comments that are made by other users.
      * **1.1.7.1.7** Users shall be able to see their followers.
      * **1.1.7.1.8** Users shall be able to see people who they follow.

#### **1.1.7.2 Creating / Editing Page**

* + - * **1.1.7.2.1** Users shall be able to provide information about: topic of the research, deadline of submission, milestones, codes, documents, result plots / figures, required skills in order to apply and if the the project is funded or not.
      * **1.1.7.2.2** Users shall be able to add a summary(abstract) part.
      * **1.1.7.2.3** Users shall be able to state the type of the content (Paper or Project).
      * **1.1.7.2.4** Users shall be able to state whether project/paper is private or public.
      * **1.1.7.2.5** Users shall be able to add co-authors and collaborators during creation of a project.
      * **1.1.7.2.6** Users shall be able to add tags related to project/paper.
      * **1.1.7.2.7** Collaborators shall be able to track the information shared by corresponding users.
      * **1.1.7.2.8** Collaborators shall be able to prepare document or article for submission simultaneously.

#### **1.1.7.3 Paper/Project Page**

* + - * **1.1.7.3.1** Users shall be able to create a new paper.
      * **1.1.7.3.2** Users shall be able to create a new project.
      * **1.1.7.3.3** Users shall be able to see the status of his/her paper(s).
      * **1.1.7.3.4** Users shall be able to see the status of his/her project(s).
      * **1.1.7.3.5** Users shall be able to edit the specifications of his/her paper(s).
      * **1.1.7.3.6** Users shall be able to edit the specifications of his/her project(s).
      * **1.1.7.3.7** Users shall be able to see his/her paper(s) in progress.
      * **1.1.7.3.8** Users shall be able to see his/her project(s) in progress.
      * **1.1.7.3.9** Users shall be able to edit the specifications of his/her paper(s) in progress.
      * **1.1.7.3.10** Users shall be able to edit the specifications of his/her project(s) in progress.
      * **1.1.7.3.11** Users shall be able to invite another user to collaborate on his/her paper(s) in progress.
      * **1.1.7.3.12** Users shall be able to invite another user to collaborate on his/her project(s) in progress.
      * **1.1.7.3.13** Users shall be able to accept or reject another users invitation to collaborate on his/her paper or project

#### **1.1.8 Search Page**

* + - **1.1.8.1** Users shall be able to search; other users, papers, projects, conferences and journals within the system.
    - **1.1.8.2** Users shall be able to filter search results with regards to the research area, topic, scope and difficulty.
    - **1.1.8.3** Users shall be able to find related posts searching related keywords.
    - **1.1.8.4** Users shall be able to view previews of papers/journals/projects/conferences related to their activities, profile and interests.

#### **1.1.9 Events Page**

* + - **1.1.9.1** Users shall be able to see about upcoming conferences related to joined projects/papers.
    - **1.1.9.2** Users shall be able to see closing deadlines of joined projects/papers.
    - **1.1.9.3** Users shall be able to travel in the timeline to see past events.
    - **1.1.9.4** Users shall be able to travel in the timeline to see far future events.
    - **1.1.9.5** Users shall be able to synchronize this calendar with other calendar applications.
    - **1.1.9.6** Users shall be able to view particular event more detailed when clicked/tapped.

### ****1.2 System Requirements****

#### **1.2.1 Search & Recommendation**

* + - **1.2.1.1** System shall support basic search of the available content.
    - **1.2.1.2** System shall support semantic search.
    - **1.2.1.3** System shall provide a tagging system.
    - **1.2.1.4** System shall provide a filtering system. This system filters the content such as projects/papers/profiles showed to the registered user.
    - **1.2.1.5** System shall provide a recommendation mechanism that recommends papers/journals/projects/conferences to the registered user based on the user activities and profile.
    - **1.2.1.6** System shall provide a recommendation mechanism for project owners, to recommend possible collaborators based on their research interests, or previous works in that area.

#### **1.2.2 Homepage**

* + - **1.2.2.1** System shall provide a homepage for each registered user, showcasing recent sharings.

#### **1.2.3 Profile Page**

* + - **1.2.3.1** System shall provide a profile page for each registered user, showcasing their interests, past contributions to projects and papers, their contacts and their related links (example: Google Scholar).
    - **1.2.3.2** System shall retrieve information (example: citations, h-index) of a user from their Google Scholar/ResearchGate pages.

#### **1.2.4 Notifications**

* + - **1.2.4.1** System shall provide a notification mechanism for informing users about the incoming invitations
    - **1.2.4.2** System shall provide a notification mechanism for informing users about whether their request to join a team accepted or rejected
    - **1.2.4.3** System shall provide a notification mechanism for informing users about whether someone accepted or rejected their invitations
    - **1.2.4.4** System shall provide a notification mechanism for informing users about whether someone has commented on their profile
    - **1.2.4.5** System shall provide a notification mechanism for warning users if they perform an unauthorized activity

#### **1.2.5 Events**

* + - **1.2.5.1** System shall provide a page of Events for every registered user.
    - **1.2.5.2** System shall fill this page with the events related to registered user.

## **2. Nonfunctional Requirements**

### ****2.1 Activity Streams****

* + **2.1.1** System shall obey [W3C Standards](https://www.w3.org/standards/)
  + **2.1.2** System shall follow [W3C Activity Streams Model](https://www.w3.org/TR/activitystreams-core/)

### ****2.2 Availability & Accessibility****

* + **2.2.1** The system shall be available as a website and as an Android application.
  + **2.2.2** The website and the application shall be available in English.
  + **2.2.3** The system shall notify users in case of a failure.
  + **2.2.4** Any failure in the system shall be handled in at most half an hour.

### ****2.3 Perfomance & Scalability****

* + **2.3.1** The system shall use queuing algorithms and caching mechanism to reduce response time.
  + **2.3.2** The system shall respond to a request at most 5 seconds.
  + **2.3.3** The system shall be able to respond up to 1000 requests per second.

### ****2.4 Security****

* + **2.4.1** The system shall be protected from unauthorized accesses and attacks to the system and its stored data according to [KVKK](https://www.mevzuat.gov.tr/MevzuatMetin/1.5.6698.pdf)
  + **2.4.2** The system shall force users to use strong passwords that contain a lowercase letter, an uppercase letter, a number and a special character and contain 6-24 characters in total.
  + **2.4.3** The system shall store only the hashed version of passwords.
  + **2.4.4** The system shall force users to change their passwords once a year.
  + **2.4.5** The system shall deny all the access attempts to an account after three failed access attempts until user re-validates his/her account via a link sent in an email.
  + **2.4.6** The system shall provide a validation code for users during registration.
  + **2.4.7** The system shall be protected against SQL injection and DDOS attacks.

# **8. Scenarios and Mockups**

# **9. UML Software Designs**

# **10. Project plan & RAM**