# Team 07 Report Part I

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## Contributions

#### **Arshad Chati**

- System Design
  - Login/Registration
    - \* Created Login and Registration designs on Figma as a basis for the rest of the team to begin implementing front-end elements.
  - Productivity Management Sub-system
    - \* Created designs for the productivity management sub-system including different views based on user rank, taking into consideration all features and functionalities and ensuring designs are available for them.
    - \* Designed all 'dashboards' and the kanban board used across the site which served as a starting point for further design by other team members during implementation.
  - Knowledge Management Sub-system
    - \* Designed the knowledge management sub-system with separate designs for the search page, results page, post page, edit post page and more.
  - Mobile Views
    - \* Designed basic mobile views as a template for the team to implement mobile first development to produce a more responsive site.
- Re-design based on client communications
  - Responsible for taking client feedback and re-working existing designs to meet their needs or replacing some designs entirely with new ones.
- Part One Presentation
  - Joint responsibility in creating the prototype presentation for the client.
  - Ensuring all relevant information is included, working on timing and ensuring information is kept concise yet informative.

#### Calin Corcimaru

- Requirements document
  - Gathered and documented the project's requirements.
  - Delivered constant updates to the requirements document.
- Project page
  - Developed the Project page and its elements that dynamically updates based on the URL id.
  - Implemented functionality that allows Managers to assign tasks to users and a filter that shows tasks on the page based on User's rank.
- Client page
  - Modeled the Client page and included all relative information that dynamically updates based on the URL id.
- Communications with Client
  - Clarified requirements by sending messages and reminders to the Client.
  - Drafted some of the emails and messages that were sent to the Client.
- Leadership
  - Coordinated the team (planning, task allocation, decision making, etc) during meetings.
  - Ensured the team is on track with task progression and deadlines.

## Jack Humphrey

- Communication with clients
  - Completed the majority of communication with the clients. This involved drafting questions, sending questions and updating our own document with our questions and the clients responses.
- User view page
- Responsible for creating the user view page. This is a page for users to see information about other users in the system.

- User edit page
- Responsible for creating the user edit page. This is a page for users to edit their own account information (such as password).
- Login page draft
- Created an initial draft of the login page which was then reworked by Rowan.

#### Adam Hutton

- Created the Dashboard/Task view
  - Including the 'Kanban' section reused elsewhere
- Created the Manager's Dashboard
- Developed ways of displaying progress to the user, including the horizontal progress bar, and the 'spinner' one used in the project page
- Created the navigation, reworked it to work on mobile
- Created the base css used everywhere in the project
  - Including the card and title styles, navigation and ensuring that the designs are consistent and responsive throughout the website.
- Contributed to the requirements document, helping to reword/rewrite requirements to aid in conciseness and reduce ambiguity

## Rowan Murphy

- Built and developed Login and registration pages
  - Created the front of the registration page from scratch and expanded on Jacks' initial draft of the login page.
- Search and parts of search results page
  - Created the search page elements to be used over a number of pages.
  - Used these elements to make the pages responsive and easy to use. Positioned them accordingly to aid in design and the flow of the pages
- Checked through code and caught bugs and features that people missed
  - Proof reading code and caught some issues such as a button missing function
  - Also discovered bugs with certain elements of data usage etc.
- Partook in decisions regarding the project and creation of requirements
  - Assisted in creating the initial requirements draft to give a basis of what the project aimed to do
  - Provided opinions and feedback to make the best decisions when designing, creating and building the project as well as suggesting changes etc. to offer an alternative solutions and a different approach to problems in development where there were multiple viable answers.

### Thomas Woolhouse

- Design the class diagram
  - Modelled the system as a diagram.
  - Modelled the system in js classes.
- Designed and created the api
  - Created a consistent api to be reused throughout the project to make the project reactive.
  - Implemented a schemeless database.
  - Custom serialistion system to allow for content parity between individual webpages.
- Login
  - Enabled the user to login
  - Keep track of the current logged-in user
  - logging out.
- Ensuring the kanban on the dashboard and the project page are consistent.
- Subtasks.
- Assigning Users to task.
- creating / editing / viewing posts.
- searching through posts.
- creating topics.
- creating clients.
- displaying an employees current workload on both the manager and project page.
- Helped teamates do some cssssssss & jsssssssssssss.
- Had a breakdown
- Got bullied by Adam (for good reason)

# Requirements

Requirements are taken from the client specification letter unless stated otherwise.

## 1. Log in / Registration requirements.

- 1. A user **must** be able to login to the system using their work email and password.
- 2. The email address used for logging in must be using the @make-it-all.co.uk domain.
- 3. A user **must** be registered in order to log in to the system.

## 2. Registration Page Requirements & Registration Requirements.

- 1. The system **must** allow existing users to invite new users to register to the system using their work
- 2. A member of staff **must** be able to register only one account in the system.
- 3. The email address used for registering must be using the @make-it-all.co.uk domain.
- 4. The password used for registering **must** be at least 12 characters long and contain a combination of at least one uppercase letter, one lowercase letter, a number, and a special character (!@#\$%^&\*). <sup>1</sup>
- 5. A confirmation email **could** be sent out to the email address used for registration to check for a valid email. <sup>2</sup>

#### 3. User requirements

- 1. The system **must** allow a user to have at least one of the following roles: Employee, Team leader or Project Manager.
- 2. The system  ${\bf must}$  allow a user to have different permissions dependant on their currently assigned role.
- 3. A user **must** be able to be assigned to a *Project*. <sup>4</sup>
- 4. A user **must** be able to work on any number of *Projects*. <sup>5</sup>
- 5. A user **must** be able to create a private task for their private to-do list. <sup>6</sup>

#### 4. Team leader requirements

- 1. A team **must** have a team leader.
- 2. The system **must** allow any user to be a team leader. <sup>7</sup>
- 3. The system **must** allow a user to be a team leader for multiple projects. <sup>8</sup>
- 4. A team leader **must** be able to manage the members of their team (add, remove).<sup>9</sup>
- 5. A team leader **must** be able to assign tasks to users in their team. 10
- 6. A team leader **must** be able to create tasks for a *Project* they supervise. <sup>11</sup>
- 7. A team leader **must** be able to track task progress of a *Project*.

<sup>104/11/2022</sup> https://learn.lboro.ac.uk/mod/forum/discuss.php?d=358985

<sup>&</sup>lt;sup>2</sup>04/11/2022 https://learn.lboro.ac.uk/mod/forum/discuss.php?d=358983#p554513

<sup>&</sup>lt;sup>3</sup>04/11/2022 https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355151#p554145

 $<sup>^422/10/2022\</sup> https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355047$ 

 $<sup>^522/10/2022~\</sup>rm https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355049$ 

 $<sup>^{7}04/11/2022~\</sup>rm{https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355151\#p554145}$ 

 $<sup>^{8}04/11/2022\</sup> https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355151\#p554145$ 

 $<sup>^904/11/2022</sup>$ https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355151#p554145 $^{10}22/10/2022$ https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355075#p549565

 $<sup>^{11}04/11/2022</sup>$  https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355151#p554145

## 5. Project Manager requirements

- 1. A Project manager must be able to manage all the Projects in the system.  $^{12}$
- 2. A project manager must be able to add tasks to any current *Project*. <sup>13</sup>
- 3. A project manager **must** be able to assign users to *Project* tasks. <sup>14</sup>
- 4. A project manager must be able to create a new *Project*. <sup>15</sup>
- 5. A project manager **must** be able to assign users to a team. <sup>16</sup>

## 6. Productivity Management requirements

- 1. A user **must** also have access to their private to-do list that is not related to any *Projects* and is only viewable by that user. <sup>17</sup>
- 2. A user **must** have access to their personal dashboard, which will contain task they are assigned to from *Projects* they are working on and their own private todo list. A private todo list is a users personal to-do list which contains tasks that are not related to any *Projects*.
- 3. The board must have columns in the 'Kanban' view that tasks can be placed in. <sup>18</sup>
- 4. The system should allow users to switch between a Kanban and 'to-do list' view.  $^{19}$

## 7. Task requirements

- 1. A task **must** have a name that will be displayed.
- 2. A task **should** have a description.
- 3. A task  $\mathbf{must}$  have a date for a deadline.  $^{20}$
- 4. A task **must** have an estimated number of worker-hours needed to complete the task.<sup>21</sup>
- 5. A task **should** have the option of being divided into smaller sub-tasks. A sub-task is a task, that the parent tasks depends on.<sup>22</sup>
- 6. If a task has sub-tasks, then its worker-hours **should** be calculated as a sum of the worker-hours of the smaller tasks.  $^{23}$
- 7. A task **must** be able to display the current state it is in. (To-Do, In Progress, Complete). <sup>24</sup>
- 8. A task with subtasks **should** display the percentage of sub-tasks that are completed. <sup>25</sup>
- 9. A task **should** be able to be categorized as either a *Project*-specific (select which *Project*) or private task (not related to any project). <sup>26</sup>
- 10. The system  ${\bf should}$  allow a Project Manager/Team leader to modify and re-assign a Task.  $^{27}$
- 11. The system **could** allow a Sub-Task to be divided into multiple Sub-Tasks. <sup>28</sup>

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^{12}04/11/2022https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355151#p554145^{13}04/11/2022https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355151#p554145
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<sup>&</sup>lt;sup>14</sup>04/11/2022 https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355151#p554145

<sup>&</sup>lt;sup>15</sup>04/11/2022 https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355151#p554145

<sup>&</sup>lt;sup>16</sup>04/11/2022 https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355151#p554145

 $<sup>^{17}22/10/2022\</sup> https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355053\#p54954122/10/2022$ 

<sup>1814/10/2022</sup> https://learn.lboro.ac.uk/mod/forum/discuss.php?d=356809

<sup>&</sup>lt;sup>19</sup>14/10/2022 https://learn.lboro.ac.uk/mod/forum/discuss.php?d=356809

 $<sup>^{20}22/10/2022</sup>$ https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355045#p549487

 $<sup>^{21}22/10/2022~</sup>https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355051\#p549539$ 

 $<sup>^{22}22/10/2022~</sup>https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355051\#p549539$ 

 $<sup>^{23}22/10/2022\</sup> https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355051\#p54953922/10/2022$ 

 $<sup>^{24}22/10/2022\</sup> https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355051\#p54953922422/10/2022\ https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355051\#p54953922422/10/2022$ 

 $<sup>^{25}22/10/2022</sup>$  https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355051#p549539 $^{26}22/10/2022$  https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355053#p549541

<sup>&</sup>lt;sup>27</sup>04/11/2022 https://learn.lboro.ac.uk/mod/forum/discuss.php?d=359053#p5439341

 $<sup>^{28}04/11/2022~</sup>https://learn.lboro.ac.uk/mod/forum/discuss.php?d=359721\#p554115$ 

## 8. Project requirements

- 1. A *Project* must have a title. <sup>29</sup>
- 2. A *Project* **should** have a description.
- 3. A *Project* must have a date for a deadline.<sup>30</sup>
- 4. A Project must have a progress displayed, which is measured by the percentage of tasks completed. <sup>31</sup>
- 5. A *Project* must have a client. <sup>32</sup>
- 6. A Project must have a team assigned to it. <sup>33</sup>
- 7. The system **should** allow users to view the teams of their projects.

#### 9. Project manager dashboard

- 1. The project manager should be able to access and manage Project details from their dashboard. <sup>34</sup>
- 2. The project manager dashboard **should** allow the project manager to manage teams and users that are assigned to their Project. <sup>35</sup>

#### 10. Manager dashboard requirements

- 1. The manager dashboard **should** allow a team leader or project manager be able to see how many tasks a user currently has assigned.
- 2. The *Project* tasks **could** be able to be filtered based on *Project* or team member assigned to it.
- 3. A *Project* **should** display whether it is sufficiently resourced. This is determined based on the sum of worker-hours required by its tasks, the number of workers assigned and the Project's deadline. <sup>36</sup>
- 4. The manager dashboard **could** display a warning to a Project Manager/Team Leader if the project is expected to fall behind the deadline, based on worker hours (see above)
- 5. A manager/team leader **could** be warned that a employee needs training if they are behind a deadline or having trouble working on a specific task.  $^{37}$

## 11. Knowledge Management requirements

- 1. The system **must** allow a user to create a new post.
- 2. The knowledge management subsystem  ${f must}$  have a search functionality where a User can search Posts by specific Topics.  $^{38}$
- 3. Posts **could** be viewable by all users by default. This option can be changed to be accessible only by an employee with certain permissions (Manager, Team lead, User).  $^{39}$
- 4. Posts must only be able to be edited by a Manager or the User who has created it. <sup>40</sup>
- 5. The subsystem **could** contain a FAQ page. <sup>41</sup>
- 6. The subsystem **should** offer users a way to contact author of post for specific questions. <sup>42</sup>
- 7. A Post **must** only have 1 topic assigned to it. <sup>43</sup>
- 8. The system **must** allow a Topic have multiple Posts. <sup>44</sup>

<sup>&</sup>lt;sup>29</sup>22/10/2022 https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355047#p549501

<sup>&</sup>lt;sup>30</sup>22/10/2022 https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355067#p549507

 $<sup>^{31}22/10/2022~</sup>https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355063\#p549553$ 

 $<sup>^{32}22/10/2022</sup>$ https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355047#p549501

 $<sup>^{33}04/11/2022</sup>$  https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355151#p554145

 $<sup>^{34}13/10/2022~</sup>https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355039\#p546189$ 

 $<sup>^{35}22/10/2022</sup>$ https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355151#p549485

 $<sup>^{36}04/11/2022~</sup>https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355067\#p554135$ 

 $<sup>^{37}22/10/2022</sup>$  https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355071#p549561

<sup>&</sup>lt;sup>38</sup>24/10/2022 https://learn.lboro.ac.uk/mod/forum/discuss.php?d=357789#p550055

 $<sup>^{40}22/10/2022</sup>$  https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355055#p549545

 $<sup>^{41}24/10/2022~</sup>https://learn.lboro.ac.uk/mod/forum/discuss.php?d=357789\#p550055$ 

<sup>4322/10/2022</sup> https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355043#p549491

## 12. Client requirements

- 1. A Client  ${f must}$  have key information including Company name, Client Representative, Office Address, and Contact Information.  $^{45}$
- 2. The system **must** allow a new client to be added.

## 13. System Requirements

- 1. The system **must** have a responsive design that will cater for different platforms and screen sizes. 46
- 2. The system **must** be able to be accessed 24 hours a day.
- 3. A user **should** be directed to the employee dashboard after logging in.
- 4. The system **must** be accessed via a dedicated web address.
- 5. The system **must** follow the GDPR regulations.

 $<sup>^{45}24/10/2022</sup>$ https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355047#p550039

 $<sup>^{46}11/10/2022~</sup>https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355077\#p545293$