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 from the specification letter and subsequent communications with Client representatives.
 - Delivered constant updates to the requirements document for maintaining current and adding new requirements.
- · Project page
 - Developed the Project page and its elements that dynamically displays information based on the Project id.
 - Implemented functionality that allows Managers to assign tasks to users when creating a new task.
 - Developed a filter that allowed the system to display tasks on the page based on User's rank.
- Client page
 - Modeled the Client page that dynamically displays all the client information based on the Client id.
- Communications with Client
 - Clarified requirements by sending messages and reminders to the Client.
 - Drafted some of the emails and messages that were then sent to the Client.
- Leadership
 - Coordinated the team (planning, task allocation, decision making, etc) during meetings and other channels of communications (WhatsApp, etc).
 - 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 JavaScript classes.
- Designed and created the api (Application Programming Interface)
 - Created a consistent api to be reused throughout the project to make the project reactive.
 - Implemented a schemeless database.
 - Custom serialisation system to allow for content parity between individual webpages.
- Login
 - Functionality to keep track of the current logged-in user.
 - Developed the functionality that allowed users to log in/log out.
- Other contributions
 - Ensured the 'Kanban' on the dashboard and the project page are consistent.

- Coded the system for dividing a task into multiple subtasks.
- Developed the functionality that allowed Users to be assigned to a task.
- Coded the functionality that allowed creating, editing and viewing posts.
- Developed the search functionality that allows searching through posts.
- Responsible for developing the functionality for creating topics.
- Responsible for developing the functionality for creating clients.
- Displaying an employees current workload on both the manager and project page.

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 email.
- 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 (!@#\$%^&*). ¹
- 5. A confirmation email **could** be sent out to the email address used for registration to check for a valid email. ²

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. ⁴
- 4. A user **must** be able to work on any number of projects. ⁵
- 5. A user **must** be able to create a private task for their private to-do list. ⁶

4. Team leader requirements

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

5. Project Manager requirements

- 1. A project manager **must** be able to manage all the projects in the system. ³
- 2. A project manager **must** be able to add tasks to any current project. ³
- 3. A project manager **must** be able to assign users to project tasks. ³
- 4. A project manager **must** be able to create a new project. ³
- 5. A project manager **must** be able to assign users to a team. ³

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

²04/11/2022 https://learn.lboro.ac.uk/mod/forum/discuss.php?d=358983#p554513

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

⁵22/10/2022 https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355049

 $^{^622/10/2022~}https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355053\#p549541$

 $^{^722/10/2022~}https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355075\#p549565$

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. ⁶
- 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. ⁸
- 4. The system **should** allow users to switch between a Kanban and 'to-do list' view. ⁸

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. 9
- 4. A task **must** have an estimated number of worker-hours needed to complete the task.¹⁰
- 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. ¹⁰
- 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. 10
- 7. A task **must** be able to display the current state it is in. (To-Do, In Progress, Complete). ¹⁰
- 8. A task with subtasks **should** display the percentage of sub-tasks that are completed. ¹⁰
- 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). ⁶
- 10. The system **should** allow a Project Manager/Team leader to modify and re-assign a Task. ¹¹
- 11. The system **could** allow a Sub-Task to be divided into multiple Sub-Tasks. ¹⁰

8. Project requirements

- 1. A Project must have a title. ¹²
- 2. A Project **should** have a description.
- 3. A Project must have a date for a deadline. 13
- 4. A Project must have a progress displayed, which is measured by the percentage of tasks completed. ¹⁴
- 5. A Project **must** have a client. ¹²
- 6. A Project **must** have a team assigned to it. ⁴
- 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. ¹⁵
- 2. The project manager dashboard **should** allow the project manager to manage teams and users that are assigned to their Project. 16

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.

 $^{^814/10/2022}$ https://learn.lboro.ac.uk/mod/forum/discuss.php?d=356809

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

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

 $^{^{12}22/10/2022\} https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355047\#p549501$

 $^{^{13}22/10/2022\} https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355067\#p549557$

 $^{^{14}22/10/2022~}https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355063\#p549553$

¹⁵13/10/2022 https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355039#p546189

 $^{^{16}22/10/2022~}https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355151\#p549485$

- 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. ¹⁷
- 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. ¹⁸

11. Knowledge Management requirements

- 1. The system **must** allow a user to create a new post.
- 2. The knowledge management subsystem **must** have a search functionality where a User can search Posts by specific Topics. ¹⁹
- 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). 20
- 4. Posts **must** only be able to be edited by a Manager or the User who has created it. ²¹
- 5. The subsystem **could** contain a FAQ page. ¹⁹
- 6. The subsystem **should** offer users a way to contact author of post for specific questions. ¹⁹
- 7. A Post **must** only have 1 topic assigned to it. ²²
- 8. The system ${\bf must}$ allow a Topic have multiple Posts. 22

12. Client requirements

- 1. A Client ${f must}$ have key information including Company name, Client Representative, Office Address, and Contact Information. 23
- 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.²⁴
- 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.

^{1704/11/2022} https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355067#p554135

 $^{^{18}22/10/2022\} https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355071\#p54956122/10/2022$

¹⁹24/10/2022 https://learn.lboro.ac.uk/mod/forum/discuss.php?d=357789#p550055

²⁰22/10/2022 https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355057#p549547

²¹22/10/2022 https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355055#p549545

²²22/10/2022 https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355043#p549491

 $^{^{23}24/10/2022~}https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355047\#p550039$

 $^{^{24}11/10/2022\} https://learn.lboro.ac.uk/mod/forum/discuss.php?d=355077\#p545293$