MCI Project Weekly Time Sheet

Team 3 **Student ID** a1792259 **Week starting:** 12/04/2021

Day	Date	Time In	Time Out	Total hours	Task	How does it fit into project plan?	Outcome/Next action
Monday	12-Apr-21	10:00 AM	11:00 AM	1,00	Six Client's meeting	Present current teams progress and discuss the next steps to finish milestone 1	The team should continue to focus on the nearest neighbor algorithm. The solultion should store the id of the nearest neighbors in a field in the database, filtered by an angle of +- 45°. Another task to work is a benchmark between different neighbor's algorithms. Finally the integration between the backend and the frontend, to display points in the directly from the Database. For the frontend, the team needs to develop a dropdown list of the sequences for the user to select one
Monday	12-Apr-21	11:00 AM	12:00 PM	1,00	Internal Meeting	Allocate the task assignments for all the team members	The team divided the tasks in the following way: Jonhatan: Add the direction and distance condition to current algorithm, store the nearest neighbors ids in the database Aryaman: Implement the new algorithm to compare it with current one Thanh: List the sequences in a dropdown list Ruby: Research integration
Tuesday	13-Apr-21	12:00 PM	6:00 PM	6,00	Work on algorithm	To present the user the nearest neighbors	The algorithm is storing the id of the nearest neighbors that fulfill the direction and direction condition. Due to performance issues, needed to change the approach to limit the number of neighbors, the algorithm will return at most 25 points
Wednesday	14-Apr-21	9:30 PM	11:00 PM	1,50	Internal Meeting	Discuss the task assignments for all the team members	For me, I'll need to change the nearest neighbor algoritm to consider new points.
Thursday	15-Apr-21	9:00 AM	1:00 PM	4,00	Update nearest neighbors algorithm	To allow the algorithm to work when there's new data	The algorithm will now consider all the new points, calculate their nearest neighbors and also update the ones changed by the new points.
Saturday	17-Apr-21	10:00 PM	11:30 PM	1,50	Internal Meeting	Discuss team's progress and agree on the topics for the agenda	The topics to discuss in the next client's meeting are: Present updated version of neighbors' calculation with KDTree considering direction and distance. Present Aryaman's research results on nearest neighbor algorithms. Discuss estimated time it takes for data to fetch from database vs on the fly to decide which option to follow. Present integration approaches and our decision: *No integration: Full Django or ReactJS *API Integration *Direct query DB SQLite Discuss plan for Milestone 2.
Monday	19-Apr-21	10:00 AM	11:00 AM	1,00	Seventh Client's meeting	Present current teams progress and get feedback from the client	The team should focus on: Research about parallel downloading for images Change the format of the time to DD/MM/YYYY Make the frontend more user-friendly, taking reference from Mapillary's website Aryaman should integrate his approach to the project code The scope of the project should only consider Adelaide, to then worry about scaling
Monday	19-Apr-21	11:00 AM	12:00 PM	1,00	Internal Meeting	Allocate the task assignments for all the team members	Ruby: Implement Query (integration) from the frontend to the SQL with Express Jonhatan: Implement query directy from the frontend to the SQL Aryaman: Integrate algorithm Thanh: Send the meetings minute and fetch images from the local storage
Tuesday	20-Apr-21	9:00 AM	5:00 PM	8,00	Work on the integration	To display the our stored data in the frontend	The direct query to the SQL was not the best approach due to security issues. At the end, I implemented an API for the back to present the data to the front. The output is that the frontend (react) is currently displaying data from the backend (django) through django-rest
Wednesday	21-Apr-21	10:00 PM	11:30 PM	1,50	Internal Meeting	Present progress and allocate next tasks	For the remainder of the week, the team will work on: Ruby: Change the code to work on only one server (Django) Jonhatan: Update the algorithm to consider more than 30 neighbors Aryaman: Update the image downloader make it faster, integrate his algorithm Thanh: Display the nearest neighbors images
Thursday	22-Apr-21	9:00 AM	12:00 PM	3,00	Update nearest neighbors algorithm	To show more than 30 nearest neighbors	The algorithm now considers more than 30 neighbors when there are more than 30 points that fulfill the conditions. It will calculate another 30 points if that's the case
Saturday	24-Apr-21	10:00 PM	11:30 PM	1,50	Internal Meeting	Discuss team's progress and agree on the topics for the agenda	The topics for the next meeting will be: Backend and frontend integration using Django REST Framework API. Images fetched from the localhost storage. Neighbour images shown on frontend. Consideration of more than 30 neighbours in the updated nearest neighbours algorithm. Updated version of the optimized nearest neighbours algorithm. Solution for image downloading with excel parser processor. Finalisation of milestone 1 activities.
Sunday	25-Apr-21	9:00 AM	2:00 PM	5,00	Use an image downloader	To store in our localhost the images in jpg	Used an image downloader service and stored 75,000 images. Also changed the API to be able handle queries by ids
			Total	36,00			