6.TUES_6:30.6

Milestone 3 Submission

Software Engineering: Process & Tools

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Xiaying Wang s3570422
Sami Yildirim s3657570

Contents

Peer Assessment

Team Member	Items Contributed	% Contribution
Michael Kolev	Provide Availability Frontend, Manage Bookings Frontend, Cancel Booking Frontend, Create Booking Frontend	25%
Liangyu Nie	DOD, Burndown Chart	15%
Sami Yildirim	Backend, Booking History Frontend, Edit Details Frontend, Frontend Integration Work, Submission Document	35%
Xiaying Wang	Manage Available Times Frontend, Unit tests, AWS	25%

Links

Trello: https://trello.com/b/LQHRyBhg/6tues6306
Github: https://github.com/RMIT-SEPT/majorproject-6-tues-18-30-6
CircleCI Pipeline: https://app.circleci.com/pipelines/github/RMIT-SEPT/majorproject-6-tues-18-30-6
AWS Deployment: http://onlinebookingsystem-env-2.eba-7awbrpqh.us-east-1.elasticbeanstalk.com/

Code Summary

New User Stories:

- Customer Booking History:
  - Allows the customer to browse their previous bookings
- Customer Edit Details:
  - Allows the user to edit their details
- Customer Book Appointment:
  - Allows the user to book an appointment for a given date, time, and worker

- Customer Cancel Booking:
  - Allows the user to cancel a booking as long as the booking is not within 24 hours
- Worker Provide Availability:
  - Allows workers to provide their availability to their employers
- Admin Manage Bookings:
  - Allows admins to browse upcoming bookings for their business, and cancel them
- Admin Manage Available Times:
  - Allows admins to browse their employees availability, and set available booking times

New Code Files:
- Entirety of backend
- FrontEnd/src/components
  - user-booking-history.component.js
  - user-edit-details.component.js
  - worker-Selectavailability.component.js
  - admin-manageBooking.component.js
  - AdminManageTimes.component.js
- FrontEnd/
  - index-BookAppointment.js
  - index-BookCancellation.js

# Project Report

Vision Statement:

In our current day & age, there are few who challenge the importance of the role that technology plays in our life, more and more of the things that used to be done by people, or with pen and paper, are now being done online and left for computers to handle.

This is why it is so important for any business to have an online booking system, the very concept of calling a business, let alone walking in to one physically, is outdated at best. The digitization of this service saves time and money for both parties, as there no longer needs to be a dedicated employee waiting to take booking calls, and the customer no longer needs to worry about opening hours or phone line charges.

With this online booking system the process of a customer booking an appointment with a business could not be easier. User logins mean that the entire system is secure, a detailed booking page allows users to easily view their options when choosing their booking, worker availability input allows employers to know exactly what hours their employees are willing to work, and the ability for admins to manage bookings means that business owners have full control over when customers can expect their service, even when things go wrong.

In short, an online booking system is essential to any small or large business owner, and a huge convenience for all customers.

System Design Diagram:
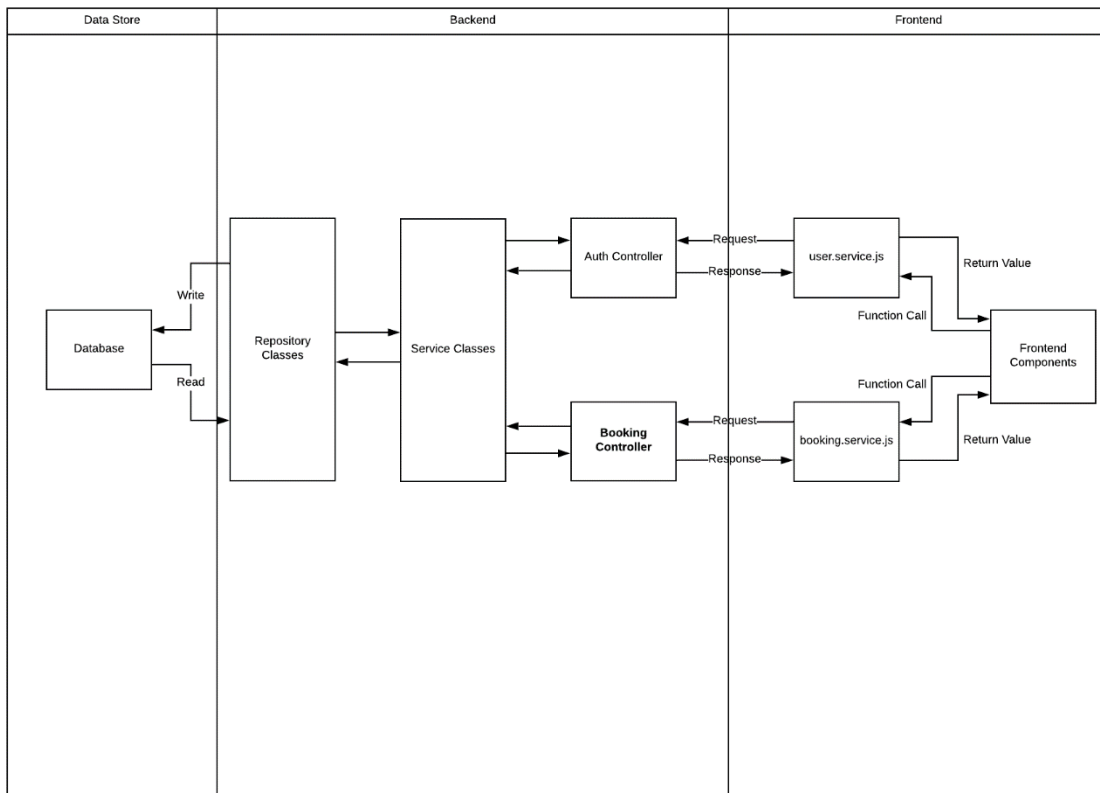
Github:

Our gitflow organization involved one of the team members who was working on a feature creating a branch for that feature at the beginning of the sprint. As work was typically divided between front end and back end, two team members were able to work on one branch with little risk of conflicting code. At the middle of the sprint, if the code for the feature was complete, team members would create pull requests, so that their code could be reviewed by another coder before it was merged into the dev branch. At the end of each sprint, when the dev branch was sufficiently tested and cleaned up, the code was merged into the master branch.

This was the intended workflow for git, however the team was not always able to conform to it (e.g. code committed directly to dev, team members failing to create git branches until late in the sprint, etc.).

With respect to how often code was committed different team members committed at different frequencies, with most only making commits towards the end of the sprint when all code was completed. Below are the graphs of commits to the project and per group member throughout the project.

Jul 26, 2020 – Oct 17, 2020

Contributions: Commit

Contributions to master, excluding merge commits
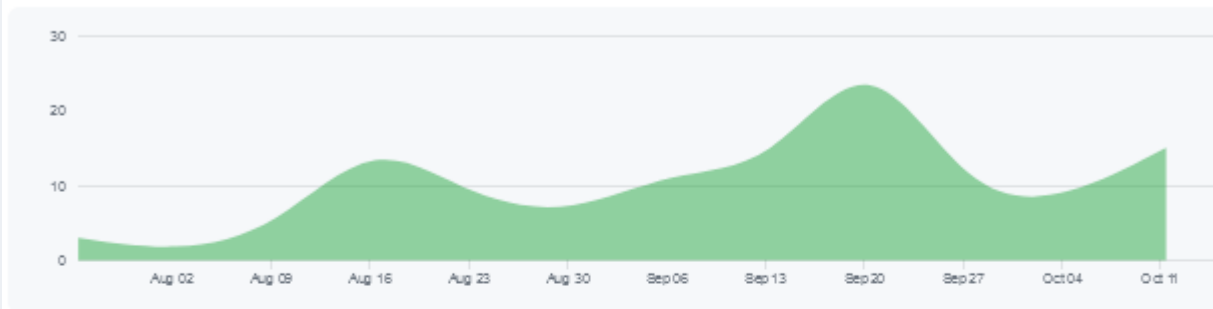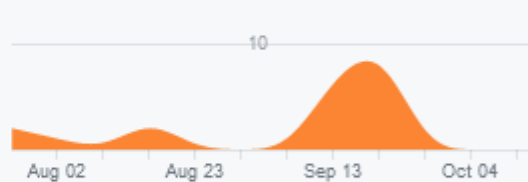

Sapphirewhale	#1
77 commits 5,958,671 ++ 8,154,306 --	

AbdielNie	
23 commits 647 ++ 536 --	

s3570422	#3
12 commits 364,787 ++ 250,238 --	

MichealK	
11 commits 832 ++ 160 --	

Scrum Process:

The scrum process for this project changed as time went on, as the team tried to improve and adapt to the needs of the project. Meetings were held with the product owner every Tuesday throughout the project, typically preceded by a team stand up meeting. A second weekly stand up was usually held on Fridays. During sprint two the team considered using daily check ins (as team members were not available for stand up meetings every day), and these persisted for a sprint before being discarded, as most team members did not engage with them.

Deployment Pipeline:
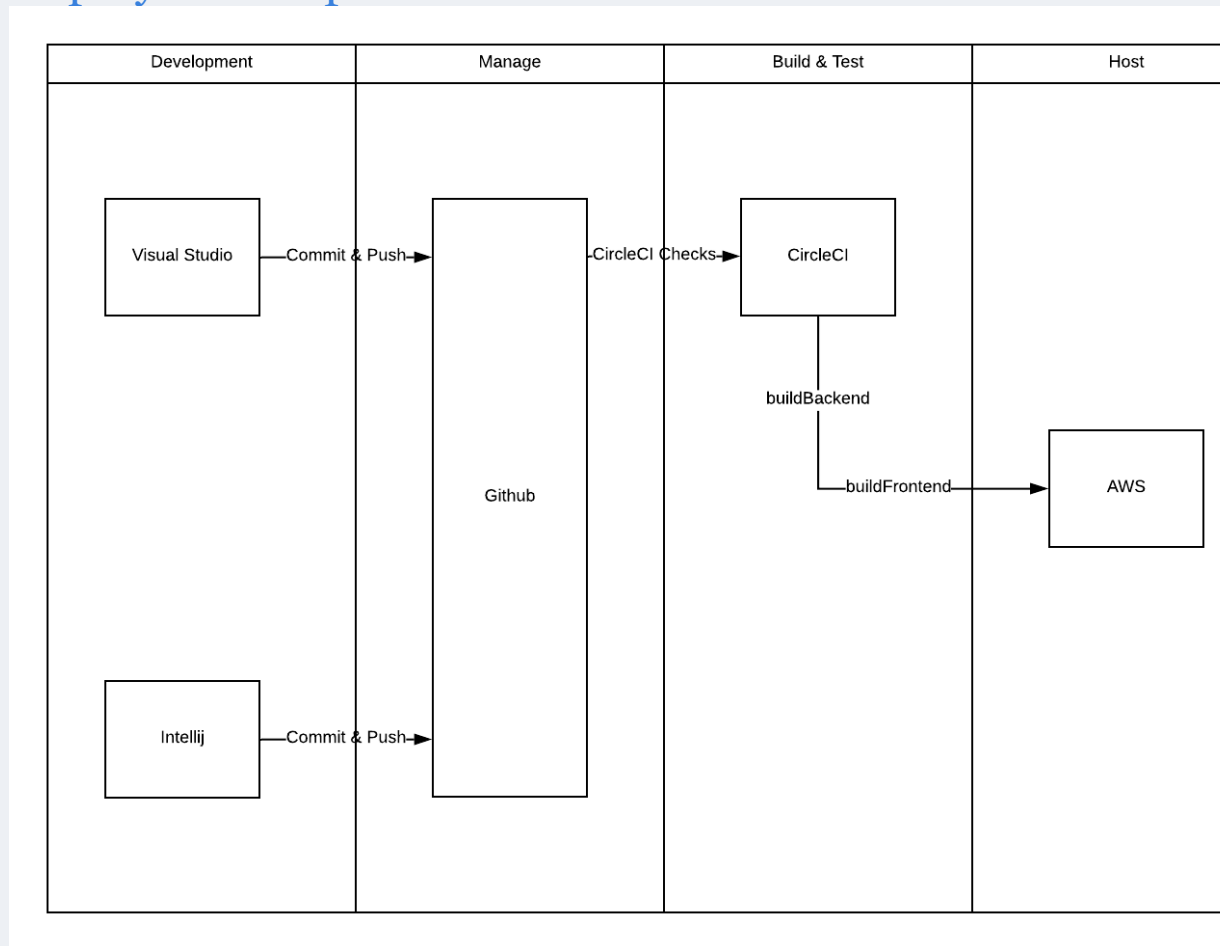
Acceptance Test Cases can be found in the description of the trello cards for each user story

Meeting Minutes

Date: 28/07/2020
Attendees:
- Mohamad Ali
- Michael Kolev
- Liangyu Nie
- Xiaying Wang
- Sami Yildirim

Information/Decisions:
- Scrum:
  - Divide timeline into blocks (2 weeks each)
  - Four Sprint Ceremonies
    - Sprint Planning
    - Daily Standup (Twice a week)
    - Showcase

- Retrospective
  - o Michael to be Scrum Master for first sprint (rotate role in later sprints)

Action Items:

	Item	Who	By
	Express interest (if any) for scrum master role.	Xiaying	04/08/2020

Date: 04/08/2020
Attendees:
- Mohamad Ali
- Michael Kolev
- Liangyu Nie
- Xiaying Wang
- Sami Yildirim

Information/Decisions:
1. Sprint 1 Planning
   - o Register Business and Register User added to sprint 1
   - o Xiaying & Liangyu assigned to Register User
   - o Sami & Michael assigned to Register Business

Action Items:

	Item	Who	By
	Write two users stories each on the trello	Michael, Liangyu, Xiaying, Sami	04/08/2020
	Complete code for registering a user	Xiaying, Liangyu	15/08/2020
	Complete code for registering a business	Michael, Sami	15/08/2020

Date: 11/08/2020

Attendees:

- Mohamad Ali
- Michael Kolev
- Liangyu Nie
- Xiaying Wang
- Sami Yildirim

Information/Decisions:

1. Acceptance tests due on Friday
2. Backlog needs time estimates and priority

Action Items:

	Item	Who	By
	Write 2 Acceptance Tests each and post related user story in team	Michael, Liangyu, Xiaying, Sami	14/08/2020
	Research scrum time estimates and priority, prioritise backlog in next meeting	Michael, Liangyu, Xiaying, Sami	14/08/2020

Date: 14/08/2020
Attendees:

- Michael Kolev
- Liangyu Nie
- Xiaying Wang
- Sami Yildirim

Information/Decisions:

1. Prioritised Backlog (Highest to Lowest)
2. Added time estimates to user stories
3. Set Sprint 1 deadline to 15/08/2020
4. Discussed Module Integration work

Action Items:

	Item	Who	By
	Sprint 1 Module Coding	Michael, Liangyu, Xiaying, Sami	15/08/2020

Date: 15/08/2020
Attendees:

- Michael Kolev
- Liangyu Nie
- Xiaying Wang
- Sami Yildirim

Information/Decisions:

1. Sprint 1 Module code is complete
2. Next steps:
    - Module Integration testing
    - Unit Tests

Action Items:

	Item	Who	By
	Create pull request for userLogin branch	Liangyu	16/08/2020
	Review code (UserLogin) and authorize pull request	Sami	16/08/2020
	Create pull request for BusinessRegistration Branch	Sami	16/08/2020
	Review code (BusinessRegistration) and authorize pull request	Xiaying	16/08/2020
	Send previous meeting minutes so that they can be formatted	Michael	16/08/2020
	Test Integration, make sure system runs smoothly on the user end	Michael, Sami	16/08/20

			2 0
	Write Unit Tests	Lia ngy u Xia yin g	1 6/ 0 8/ 2 0 2 0
	Prepare Milestone 1 Submission (Team Names, Preliminary Peer Assessment, Links, Meeting Minutes)	Sa mi	1 6/ 0 8/ 2 0 2 0

Date: 16/08/2020
Attendees:
- Michael Kolev
- Liangyu Nie
- Xiaying Wang
- Sami Yildirim

Information/Decisions:
1. Project submission reviewed

Action Items:

No.	Item	Who	By
1	Push release to main branch	Sami	17/08/2020

Date: (16/08/2020)

Attendees:
- Mohamad Ali
- Micheal Kolev
- Liangyu Nie
- Xiaying Wang
- Sami Yildirim

Information/Decisions:
1. Held Sprint Retroactive
2. Planned Sprint 2
3. Passed Scrum Master role to Sami for Sprint 2

Action Items:

	Item	Who	By
	Write up and post sprint retro document	Sami	18/08/2020
	Admin and Worker Login	Sami	25/08/2020
	Backend for bookings and available time/day	Liangyu	25/08/2020
	Frontend for viewing available days and times	Micheal	25/08/2020
	Frontend for searching available times and appointment types	Xiaying	25/08/2020

Date: (21/08/2020)
Attendees:
- Micheal Kolev
- Xiaying Wang
- Sami Yildirim

Apologies:
- Liangyu Nie

Information/Decisions:

1. Scrum meeting talking points (each person should answer these questions in each meeting)
    o What have you done since last meeting?
    o What do you intend to do before the next meeting?
    o What is blocking you?
2. Other subject assignments blocking members, coding should still be done by Tuesday
3. Remember to reply to daily check-ins (even if only one word)
4. Even if you can't get your code done by tuesday, make sure that you have something done so we can try to gauge progress

Date:(25/08/2020)

Attendees:
- Mohamad Ali
- Micheal Kolev
- Liangyu Nie
- Xiaying Wang
- Sami Yildirim

Information/Decisions:
- Push code to git more regularly
- Reorganise file structure and git branches at the end of the sprint
- User time search page complete
- Backend for viewing available booking times complete
- Other usertype logins blocked by database issues
- Frontend for viewing available booking times blocked by other schoolwork
- Team members who are done with their sprintwork to be assigned to unit testing
- Sami to complete (untested) code by Wednesday, bug testing can be done by others if code won't run
- Michael to check in with progress on Thursday, confirm deadline

Action Items:

	Item	Who	By
	Push completed code for other usertype logins	Sami	26/08 /2020
	Progress check in	Micheal	27/08 /2020

	Item	Who	By
	Unit tests	Liangyu, Xiaying	01/09/2020

Date:(28/08/2020)

Attendees:
- Micheal Kolev
- Liangyu Nie
- Xiaying Wang
- Sami Yildirim

Action Items:

	Item	Who	By
	Merge otherLogin branch into dev	Sami, Liangyu	29/08/2020
	Merge sprint2 branch into dev	Xiaying, Sami	28/08/2020
	Merge timeBook branch into dev	Micheal, Liangyu	29/08/2020
	Test dev branch	Liangyu, Xiaying	30/08/2020
	Prune git branches	Micheal	31/08/2020
	Reorganise file structure	Sami	31/08/2020
	Merge dev into main	Micheal	01/09/2020

Date:(01/09/2020)

Attendees:
- Micheal Kolev
- Liangyu Nie
- Xiaying Wang
- Sami Yildirim

Information/Decisions:
- Sprint 3 focus on customer
- Write a simple UI Image

Action Items:

	Item	Who	By
	Customer book an appointment (Backend)	Liangyu	08/09/2020
	Customer book an appointment (Frontend)	Michael	08/09/2020
	Cancel booking (Backend)	Liangyu	08/09/2020
	Cancel booking (Frontend)	Michael	08/09/2020
	Edit Details (Backend)	Xiaying	08/09/2020
	Edit Details (Frontend)	Sami	08/09/2020
	View Previous Bookings (Backend)	Xiaying	08/09/2020
	View Previous Bookings (Frontend)	Sami	08/09/2020

Date:(08/09/2020)

Attendees:
- Micheal Kolev
- Liangyu Nie
- Xiaying Wang
- Sami Yildirim

Information/Decisions:
- Held Sprint Retroactive
- Reset the due date to 11/09
- Meet an error on backend called

" Field userRepository in com.sept.security.services.UserDetailsServiceImpl required a bean of type 'com.sept.repository.UserRepository' that could not be found."
it's werid but sami and Liangyu will fix it

Action Items:

	Item	Who	By

	Customer book an appointment (Backend)	Liangyu	11/09/2020
	Customer book an appointment (Frontend)	Michael	11/09/2020
	Cancel booking (Frontend)	Michael	11/09/2020
	Edit Details (Backend)	Xiaying	11/09/2020
	Edit Details (Frontend)	Sami	11/09/2020
	View Previous Bookings (Backend)	Xiaying	11/09/2020
	View Previous Bookings (Frontend)	Sami	11/09/2020

Date:(11/09/2020)

Attendees:
- Micheal Kolev
- Liangyu Nie
- Xiaying Wang
- Sami Yildirim

Information/Decisions:
- Try to fix error before next Monday 14/09
- Clean the branch
- 4 unit tests per person
- Each person writes >4 acceptance criteria for one user story of sprint2 before 15/09
- DOD,CircleCI,depoly not finished.

Action Items:
	Item	Who	By
	Test on postman	Sami,Liangyu	14/09/2020
	4 unit tests per person	Sami,Michael,Liangyu,Xiaying	15/09/2020

	Fix errors	Sami,Michael,Liangyu,Xiaying	15/09/2020
	writes >4 acceptance criteria for one user story for sprint2	Sami,Michael,Liangyu,Xiaying	15/09/2020

Date:(15/09/2020)

Attendees:
- Micheal Kolev
- Liangyu Nie
- Xiaying Wang
- Sami Yildirim

Information/Decisions:
- The use of postman
- Finish the DOD CircleCI acceptance criterias before 19/09/2020

Action Items:

	Item	Who	By
	Test on postman	Sami,Liangyu	18/09/2020
	The rest acceptance criterias (16) for sprint3	Sami	18/09/2020
	DOD	Xiaying	18/09/2020
	CircleCI	Michael, Liangyu	18/09/2020
	Manage the pull request	sami	18/09/2020
	Deploy to AWS	Liangyu	18/09/2020

Date:(22/09/2020)

Attendees:
- Micheal Kolev
- Liangyu Nie
- Xiaying Wang
- Sami Yildirim

Information/Decisions:
- Sprint Planning
- Push git branches by tomorrow

Action Items:

	Item	Who	By
	Worker Provide availability (Frontend)	Micheal	29/09/2020
	Worker Provide availability (Backend)	Sami	29/09/2020
	Admin Manage Bookings (Frontend)	Michael	29/09/2020
	Admin Manage Bookings (Backend)	Sami	29/09/2020
	Admin Manage Available Times (Frontend)	Liangyu	29/09/2020
	Admin Manage Available Times (Backend)	Xiaying	29/09/2020

Date:(25/09/2020)

Attendees:
- Micheal Kolev
- Liangyu Nie
- Xiaying Wang
- Sami Yildirim

Information/Decisions:
- Work is progressing on schedule
- Git branches still need to be pushed

Date:(29/09/2020)

Attendees:

- Micheal Kolev
- Liangyu Nie
- Xiaying Wang
- Sami Yildirim

Action Items:

	Item	Who	By
	Integration between Backend & Frontend	Liangyu	06/10/2020
	Github Merges	Sami	06/10/2020
	Unit Tests	Micheal	06/10/2020
	AWS	Xiaying	06/10/2020
	Worker Provide Availability Testing	Sami	06/10/2020
	Admin Manage Available Times	Liangyu	06/10/2020

Date:(02/10/2020)

Attendees:
- Micheal Kolev
- Liangyu Nie
- Xiaying Wang
- Sami Yildirim

Information/Decisions:
- All work seems to be on schedule, no blocks

Action Items:

	Item	Who	By
	Review AdminManage	Sami	6/10/2020

Date:(06/10/2020)

Attendees:

- Micheal Kolev
- Liangyu Nie
- Xiaying Wang
- Sami Yildirim
- Mohammed Ali

Information/Decisions:
- Sprint Retro

Action Items:

	Item	Who	By
	CircleCI	Micheal	11/10/2020
	Integration	Sami	11/10/2020
	Unit Tests	Xiaying	11/10/2020
	Burndown chart	Liangyu	11/10/2020
	DOD & Test Cases	Liangyu	11/10/2020

Date:13/10/2020)

Attendees:
- Micheal Kolev
- Xiaying Wang
- Sami Yildirim
- Mohammed Ali

Apologies:
- Liangyu Nie

Information/Decisions:
- Implement any functionality you have left unfinished from previous sprints

Action Items:

	Item	Who	By
	Milestone Presentation: What went well, what could be improved	Micheal	11/10/2020

	Milestone Presentation: Interesting Feature	Sami	11/10/2020
	Milestone Presentation: Things we Learned	Xiaying	11/10/2020
	Milestone Presentation: Things that surprised us	Liangyu	11/10/2020

Date:16/10/2020)

Attendees:
- Micheal Kolev
- Liangyu Nie
- Xiaying Wang
- Sami Yildirim

Information/Decisions:
- Recorded Milestone Presentation

Action Items:

	Item	Who	By
	Prepare and Submit Milestone 3 submission	Sami Yildirim	17/10/2020