Effort Estimation and Scheduling

TakuMahi Evidence Review Three

First, a review of our management spreadsheet.

Release Plan

Here we have laid out the schedule for the release. We have three two week sprints, roughly estimated at the same size.

Sprint	Plan							
Sprint	Start	Days	End	Size	Status	Release Date	Goal	Increment
1	5/04/2021	14	18/04/2021	58	Planned	18/04/2021	Create Base fuctions and Support	1
2	19/04/2021	14	2/05/2021	66	Planned	2/05/2021	Complete Fundamentals	2
3	3/05/2021	14	16/05/2021	65	Planned	16/05/2021	Add extra features	3
		Unallo	cated stories	0				

Product Backlog

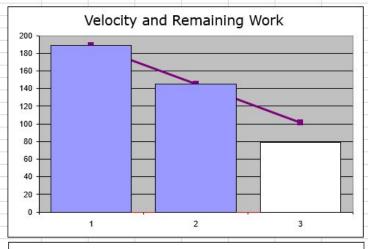
Story ID Story name	Status	Size	Sprint	Priority	Comments
24 DAO	Ongoing	8	1	Must	Create the DAO for the Java Application
25 Domain	Ongoing	8	1	Must	Create the Domain classes for the Java Application
26 Resource / API	Ongoing	10	1	Must	Create the API and Java Resource classes.
2 Interface App design	Ongoing	3	1	Must	Users wants the design of the app to follow the Otago U
14 Login	Ongoing	3	1	Must	Users must be logged in to the service to access the fuct
16 Calendar and Roster viewer	Ongoing	13	1	Must	Users should be able to access the calendar and upcomi
9 Multi-factor Authentication	Ongoing	3	1	Must	Users will need to be verified using their staff ID and pin
22 Tagging of roles on the employees	Ongoing	2	1	Should	Roles of the employee will be tagged in their ID
20 Account Creation	Ongoing	5	1	Must	Users with manager permissions should be able to create
21 Acount Deletion	Ongoing	3	1	Must	Users with manager permissions should be able to delete
3 Assigning Shifts	Planned	13	2	Must	Users with manager permissions should be able to assign
4 Hours Selection	Planned	13	2	Must	Employees are able to select which hours they are availa
5 View Open Shifts	Planned	8	2	Should	Employees should be able to view and apply for available
8 Checking availability of employee	Planned	3	2	Must	Users with manager permissions should be able to view to
10 mobile support	Planned	5	2	Must	Users should be able to use the system on mobile device
12 view shifts	Planned	3	2	Must	Employees and management should have the ability to vi
17 Notifcation system	Planned	13	2	Should	People should be notified if someone wants to alter their
18 Record of hours of each individuals	Planned	3	2	Should	Employees are able to see the report on how many hour
19 Record of total hours	Planned	3	2	Must	Managers are able to see the summarised report on how
23 Filter by roles	Planned	2	2	Should	View shifts by role. Only people with the selected role wi
1 Clocking In&Out	Planned	21	3	Could	Employees should be able to clock in and out of their shift
6 Request Shift Swap	Planned	21	3	Should	Employees should be able to create Shift Swap requests
7 Shift Swap Approval	Planned	5	3	Should	Managers will have to approve all Open Shifts/Shift Swap
11 Recieve shifts	Planned	2	3	Could	Employees should be emailed out a shift
13 User guide	Planned	3	3	Could	New users are able to refer to the user guide on how to
15 Calendar Export	Planned	13	3	Could	Users should be able to export their roster to a third-part

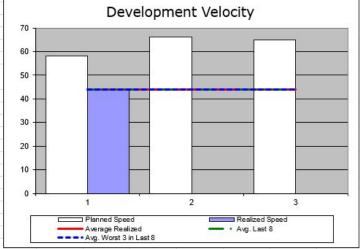
Burndown

Froduct Backlog Bul	ndown Chart
Original planned size	189
Count trend from last	3 sprints
Velocity (points per sprint)	
Original estimate	30
Last 3 sprints	44.0
Realized total average	44.0
Average last 8	44.0
Avg. worst 3 in last 8	44.0
Trend	44.0
Predictions - Completion at	the end of sprint
Original estimate - Min	4
Original estimate - Avg	7
Original estimate - Max	11
Last 3 sprints	4
Realized average	4
Average last 8	4
Avg. worst 3 in last 8	4
Trend	2
Realized + St. Dev	4
Realized - St. Dev	4

Product Backlog Burndown Chart

Sprint	Remain. Work	Planned Work	Realized Work	Current Total Size
1	189	58	44	189
2	145	66		189
3	79	65		189
		-	1	



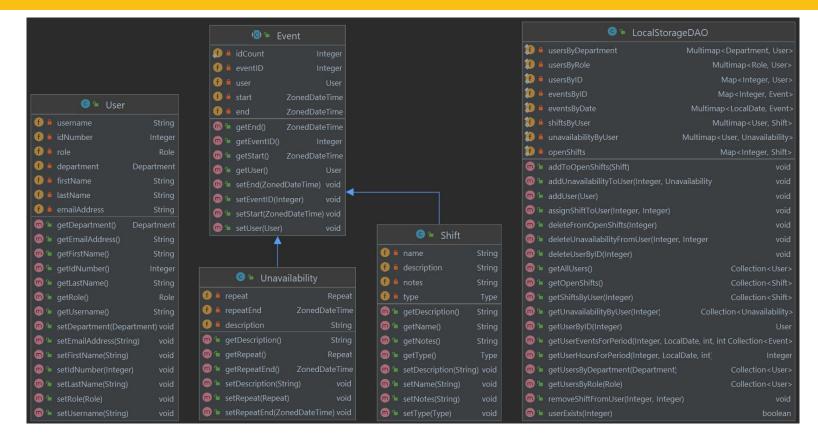


Sprint One



Now, a review of our current progress.

Domain Classes & Data Access Object

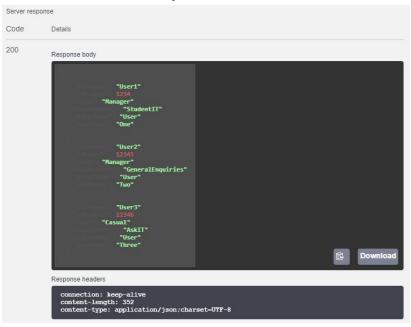


Resource Classes and API

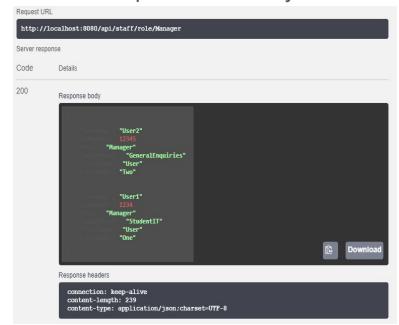
- Created Open API Specification
- Resource Classes for Staff List, Staff, and Staff filtered by Role
- Can now run HTTP requests for Resource Classes Examples Next Slide
- Tasks Remaining:
 - Create API paths for Staff Unavailabilities and Shifts in a Period
 - Implement Resource Classes for Shift related services
 - Automated tests to ensure all services work as expected

Resource Classes and API - HTTP Examples

GET Request Staff List



GET Request filtered by Role



View shifts

- Created the necessary front end for a user to be able to view their shifts in a weekly or daily view.
- Currently the calendar doesn't process or display data but we plan to update this in the next sprint when we will have the necessary dependencies completed.
- The buttons on the top right allow you to select how you'd like to view the data though currently do not work as we are waiting for the dependencies on this as well.
- The calendar still needs to have it have its style changed to match the rest of the site And some kind of save button.

View Shifts Screenshots

Day	Week	Month	n Next	Previous						
Time		М	onday		Tuesday	Wednsday	Thursday	Friday	Saturday	Sunday
01:00										
02:00										
03:00										
04:00										
05:00										
06:00										
07:00										
08:00										
09:00										
10:00										
11:00										
12:00										
13:00										
14:00										
15:00										
16:00										
15:00										

O Day	• Wee	ek ● 1	Month	Next	Previou	s																		
Time	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
Task																								

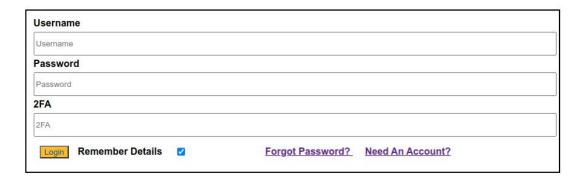
View Shifts Screenshots - Continued

● Day ● Week ● Mont	h Next Previous			-		
Monday	Tuesday	Wednsday	Thursday	Friday	Saturday	Sunday
01	02	03	04	05	06	07
08	09	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

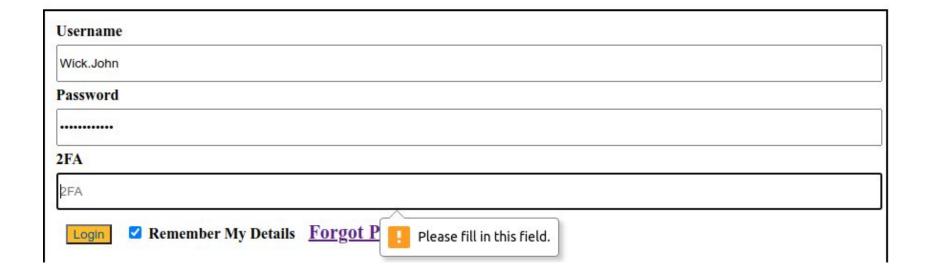
Login Page

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Login Page Continued...

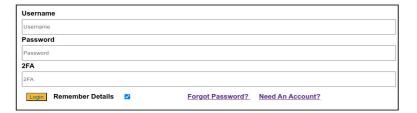


Website Design



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Log in to AskOtago

University of Otago staff and students

Log in using your University of Otago username

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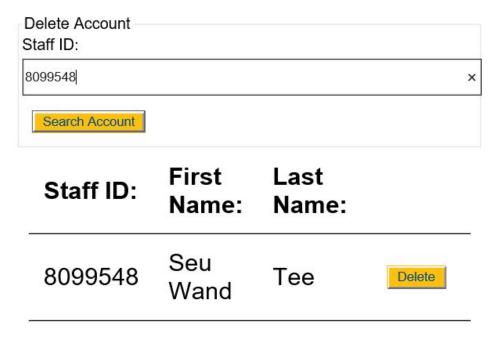
Create An Account Page

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Account Details Staff ID:	
8099548	
First Name:	
Seu Wand	
Last Name:	
Teel	×
Staff Email:	
PIN:	
Phone Number:	
Department:	
	~
Roles:	~
Create Account	

Delete Account Page

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Thank you for your attention.

Are there any questions at this time?