

Software Project Management (SE3080) : Assessment 1

Brief description of the project and the responsible functions of each member

Description

The project will develop a web application that stores and displays details and specifications of mobile smart phones and laptops. Users will be able to search and view the details of the phones or laptops. Users will also be able to view the items side by side for comparison purposes. The internal users will be able to add phones or laptops, edit them after addition and delete them if necessary. The items will be able to be published or unpublished depending on the requirements. Once unpublished they will be invisible to the external users and once published, they will be visible to the external users. If external users create accounts, they can leave reviews on phones/laptops so that other users can get an idea about that particular phone or laptop.

Responsible function

Student Reg. No	Responsible Function
IT19014128	Smart phone section.
IT19180526	Laptop section

IT19240848	User profiling authentication and reviews.

Product Backlog

Product Backlog Item (PBI)	Priority (1 -10, 1 is highest)	Reason for selecting Priority (Business Value, ROI, Time, Dependencies)
View Phones	1	One of the main functionalities of the system. Users will be heavily using this feature.
Search Phones	1	This feature will be useful for users to easily find the phones they are looking for
Filter Phones	4	Users can even view phones without filters
View Phones side by side	4	Users can still view details of phones one by one without comparing
Manage phone entries	1	To be able for users to view the phone entries, they have to be managed.
Manage chipset entries	1	To add phone entries chipset entries, have to be properly managed.
Laptop section	1	One of the main functionalities of the system. Users will be heavily using this feature.
Manage laptop	1	To be able for users to view the laptop entries, they have to be managed.

Search laptop section	2	Users will need to be able to search and find the laptops they need easily.
Login to the system	1	Admin also has to use the same login. Therefore, the login is important
User registration	6	External users can view details even without an account.
Update user profile	8	Accounts are not mandatory therefore updating is not a high priority option.
Delete user profile	9	Accounts are not mandatory therefore deleting is not a high priority option.
User reviews	5	User reviewers are useful since users viewing entries can get an idea about phones/laptops, but reviewing is not a mandatory option.
User report generation	7	Getting an idea about the users using the system is important for the owners of the system. But this will not be a function that external users will be using directly.

Sprint Backlog : Sprint 1

Backlog Item	Epic	User stories	Decided Story Points	Planning poker estimate of			Reasons for estimate	Responsible member of user story
				Ravindu	Hirush	Navinda		
Laptop Section	As a user, I want to be able to see laptops list so that I can refer details and review laptops.	As a user, I want to be able to see available Laptops with summary of details so that I can view it.	13	13	13	13	All – Has to load a photo to every laptop.	Navinda
		As a user, I want to be able to select one laptop clicking on the laptop from the laptop list so that I can view single laptop details and review it.	13	13	8	13	Hirush – We have to take single view through id. We can create a list by looping. Lankesh – We have a single item from the list and go to a single view. Ravindu – We have to make the list item clickable.	Navinda
				13	13	13		
Manage Laptop	As an internal	As an editor, I want to be	13	13	13	13	Ravindu - Has to create complex form.	Navinda

	user, I want to be able to manage laptop entries so that external users can view correct details of laptops they are looking.	able to add new laptop so that I can view it from landing page.					Lankesh - Has to store data previously. Hirush - Has to load data to form.	
	As an editor, I want to be able to add Laptop images so that user can view image of laptops.	13	13	5	13	Ravindu - Image uploading has to be done with cropping enabled. Lankesh - Images should be added separately. Hirush - Image adding can be done in the form itself	Navinda	
			13	8	13	Ravindu - Image should be stored in a separate database (firebase). And Link should be stored in the main database. Lankesh - Image should be stored in a separate database (firebase). And Link should be stored in the main database. Hirush – Binary file of image can be stored in the main database.		
			13	13	13			
	As an editor, I want to be	8	8	8	8	All - Same form add laptops can be use here.	Navinda	

		able to update all details of Laptop so that I can make sure details are correct.						
		As an editor, I want to be able to change Laptop images so that user can view new image of laptops.	5	8	5	8	Ravindu – Image has to be loaded again to edit. Lankesh – Replacing the image may be complex. Hirush - Same method used in adding can be used in editing the image	Navinda
				5	5	5		
		As an admin, I want to be able to delete laptop so that I can make sure laptop entries are correct and relevant.	5	5	5	5	All - Deleting can be done using a list of all laptops	Navinda
View Phones	As a viewer I need to view phones so that I can	As a viewer I need to view a list of phones so that I can	8	13	13	13	All - Both viewing and selecting has to be done. List item has to be made clickable	Ravindu

	get details about the phones	select one phone I like						
		As a viewer I need to view a single phone so that I can view the details about that phone	8	8	5	5	Ravindu - Has to create a special UI to view the details. Lankesh - Can show phones by fetching them with ids Hirush – Can show phones by fetching them with ids	Ravindu
				8	8	8		
Manage Phone Entries	As an internal user I need to manage phone entries so that necessary details will be available for external users	As an editor I need to add a phone entry so that it will be stored in the system.	8	13	5	5	Ravindu - Has to add image with cropping enabled. Lankesh – Can upload image without cropping Hirush – Has to add phone entry by filling a form.	Ravindu
				8	8	8		
		As an editor I need to edit the phone details so that I can update if I find more details about the phone afterwards.	8	8	8	8	All - Has to load the details to a form and then edit it	Ravindu

		As an editor I need to publish phone entries so that viewers can view those phone entries	5	5	5	5	All- Button has to toggle a status in entry to publish.	Ravindu
		As an editor I need to unpublish phone entries so that the viewers cannot view those entries	3	3	3	3	All - Button has to toggle a status in entry. Logic of publish has to be used in reverse.	Ravindu
		As an admin I need to delete phone entries so that they are removed from the database in case I someone makes a mistake	8	5	13	5	Ravindu – Entry has to be deleted from the database. Lankesh - List has to be rendered with delete buttons. Hirush - UI elements has to be maintained like popups and alerts.	Ravindu
				8	8	8		
Manage chipset entries	As an internal user I need to	As an editor I need to add chipsets so	5	5	3	5	Ravindu - Some details have to be added and UI has to be created.	Ravindu

	manage chipset entries so that they can be used in phone entries	that they are available in phone entries					Lankesh – Some details of the form has to be entered to the database first. Hirush - Simple form can be used	
				5	5	5		
	As an editor I need chipsets to be visible in add phone form so that I can add a chipset to that phone	8	8	8	8	5	Ravindu - Chipset brand and model have to be concatenated to show in the dropdown. Lankesh - The list can be used with a map to get the chipsets into the dropdown. Hirush – No previous experience on a scenario like this.	Ravindu
				8	8	8		
	As an editor I need to be able to change chipset details so that I can update the chipset details if they get changed	5		5	5	5	All - The data can be loaded into a form and then edited and saved to the database.	Ravindu

		As an admin I want to delete chipset entries so that they are removed from the database.	5	5	5	All - The confirmation UI and popups can be taken from the phone entry deletion methodology.	Ravindu
Login to the system	As a user, I want to be able to login securely into the system so that my information can only be accessed by me.	As a registered user, I want to login with my credentials So that system can authenticate me.	13	13	13	All - Login has to be handled securely with JWT.	Hirush
		As a registered user, I need to select forgot password option so that I can recover my account.	21	13	13	Ravindu - Has to redirect from email to change the password. Lankesh - Has to create interface. Hirush - Has to send email with reset link	Hirush
		As an admin, I want to be able to login	5	5	5	All - Admin can use the same login with different roles.	Hirush

		with admin credentials so that I can see all the part of the system.						
		As an admin, I want to prevent unauthorized user from accessing the admin section so that system information is protected.	5	8	5	5	Ravindu - Admin pages has to be set to check the privileges at every page. Lankesh - Once privileges are set to a page we can use them in other pages too. Hirush- Once privileges are set to a page we can use them in other pages too.	Hirush
				5	5	5		
User registration	As a new user, I want to be able to register to the system so that I can access to the system.	As a new user, I want to register by giving a username and password with other information	8	5	8	5	Ravindu – Simple registration form can be used Lankesh - Simple registration form can be used Hirush - User details validations have to be done. Username, password validations has to be done.	Hirush

		So that system can store my account and my data.		8	8	8		
		As a new user, I want to receive an email once I register so that I can confirm that I have registered to the system.	3	8	3	5	Hirush -This happens in the registration. There is previous experience on sending emails. Ravindu– sending an email may be difficult	Hirush
				3	3	3		
Update user profile	As a registered user, I want to be able to update my information so that I can keep my information update.	As a registered user, I want to be able to update my information so that I can keep my information update.	5	5	5	5	All - Can reuse the form used add the user.	Hirush

Sprint Backlog : Sprint 2

Backlog Item	Epic	User stories	Decided Story Points	Planning poker estimate of			Reasons for estimate	Responsible member of user story
				Ravindu	Hirush	Navinda		
Search Laptop Section	As a user, I want to be able to filter and search Laptops so that I can view most suitable laptops and view report of details.	As a user I want to be able to find a laptop or laptops so that I can view report of laptop details.		13	13	13		Navinda
		As a user, I want to be able to filter laptops by processor so that I can view laptops by processor.	8	13	8	8	Ravindu – Filter criteria has to be sent to the backend. Lankesh - Filtering can be done using backend mechanisms. Hirush - Filtering can be done using frontend mechanisms	Navinda
				8	8	8		
		As a user, I want to be able to filter laptops by RAM capacity so	5	5	5	5	All - Same logic can be used for this filter too.	Navinda

		that I can view laptops by RAM capacity.						
		As a user, I want to be able to filter laptops by BRAND so that I can view laptops by BRAND.	5	5	5	5	All - Same logic can be used for this filter too.	Navinda
Search Phones	As a viewer I need to search phones so that I do not need to manually select the phone I need to view.	As a viewer I need search results to be displayed so that I can select a phone out of the results	8	8	8	8	All - Searching can be done using brand and model name	Ravindu
Filter Phones	As a viewer I need to filter the phones so that I can view phones according to various criteria	As a viewer I need to filter phones based on brands so that I can pick a specific brand	8	8	8	8	All- Filtering can be done using front end mechanisms.	Ravindu
	(report generations)	As a viewer I need to filter the	5	5	5	5	All- Same logic used for other phone filters can be used here too.	Ravindu

		phones based on chipsets so that I can view all the phones with a specific chipset						
		As a viewer I need to filter the phones based on the OS they run so that I can view only the phones that have the OS I need.	5	5	5	5	All- Same logic used for other phone filters can be used here too.	Ravindu
View Phones Side by Side	As a viewer I need to view phones side by side so that I can compare them easily	As a viewer I need to view phones side by side so that I can compare them easily	21	21	21	21	Ravindu - Has to create a complex UI. Lankesh - Has to create a separate search that supports selecting. Hirush - Has to load one phone to compare UI.	Ravindu

Delete user profile	As a registered user, I want to be able to delete my account so that system has removes all details related to my account.	As a registered user, I want to be able to delete my account so that system has removes all details related to my account.	5	5	5	5	All - External users can be delete their accounts by using front end UI.	Hirush
User reviews	As a register user, I want to able to give a feedback for particular item so that all users can get overall idea about that item.	As a register user, I want to able to give a feedback for particular item so that all users can get overall idea about that item.	13	13	13	13	All - Has to create a new form put a link in each entry and check authentication. Need to create new table.	Hirush
User Report Generation.	As an administrator I want to be able to generate user reports so that I can get user count	As an administrator I want to be able to generate user reports so that I can get user count		13	13	13		Hirush

	and user details monthly.	and user details monthly.						
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Contribution to the assessment

Student Reg. No	Student Name	Contribution
IT19014128	A.M.W.W.R.L. Wataketiya	Smartphone section related backlog items, epics, user stories and contributed for planning poker estimation of all user stories.
IT19180526	S.A.N.L.D. Chandrasiri	Laptop section related backlog items, epics, user stories and contributed for planning poker estimation of all user stories.
IT19240848	H.G. Malwatta	User profiling, authentication and reviews backlog items, epics, user stories and contributed for planning poker estimation of all user stories.