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Introduction:

In this project, we will discuss the E-Scooter project (analysis). A scrum method was used to analyze the project. The project requirements will be addressed in addition to the task schedule. The objective for this project is to collect a clear understanding of the requirements, develop use case scenarios and UML diagrams to describe the planned software product. In addition, develop a high-level software architecture and build user interface prototypes for relevant parts of the functionality. The artifacts here are the diagrams and any additional documentation as needed to describe the software functionality for outsourcing the development. The quality of the artifacts will be ensured by a proper definition of "Done".

In the first step of the project, the main requirements and additional requirements of the project will be listed in addition of the list of product backlog items, estimates of how long it will take to produce the corresponding artifacts for each of these backlog item.

1. DEFINITION OF DONE

The definition of done (DoD) is when all conditions, or acceptance criteria, that a software product must satisfy are met and ready to be accepted by a user, customer, team, or consuming system. We must meet the definition of done to ensure quality. It lowers rework, by preventing user stories that don't meet the definition from being promoted to higher level environments. It will prevent features that don't meet the definition from being delivered to the customer or user¹.

¹ <https://www.agilealliance.org/glossary/definition-of-done/>

1.1 USER STORIES

The most common use of DoD is on the delivery team level. Where the owner reviews what the team did and accepts the tasks, and once the user story is accepted it will contribute to increasing the performance and speed of the work team, but there is an important condition, which is, that all the required criteria for the project must be met.

2.1 What ist the Benefits of Having a Definition of Done

There are many benefits to having a clear Definition of Done:

- A checklist exists to make sure only high-quality work is released to real users.
- Team members will have much less reason to argue over what "done" means.
- User stories typically get finished (i.e., "done") before more are started. This means fewer items that are "works in progress" and more user stories are released to real customers.
- Measuring "quality" becomes part of the weekly/monthly routine.
- Fewer items get "pushed back" into development because they only "make it out" of development when they are genuinely ready.
- Fewer conversations.

User Story DoD Examples:

- Unit tests passed.
- Code reviewed.
- Acceptance criteria met.
- Functional tests passed.
- Non-Functional requirements met.
- Product Owner accepts the User Story.

2. logical structure

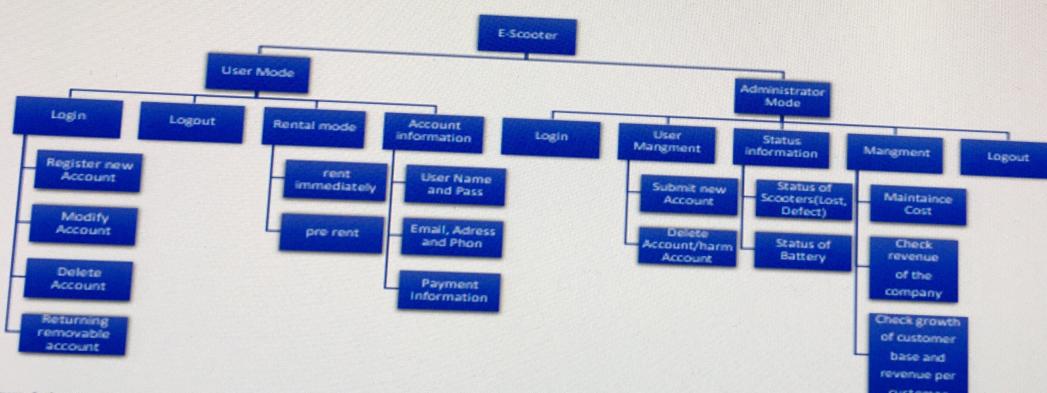


Figure 1:short system hierarchy(E-Scooter)

The previous figure is a brief graph that shows what are the requirements that the customer needs in his own system, where the project is divided into two main sections, namely:

- user interface
- And the administrator interface

It is branched from each interface with a set of features that allow each of them to perform a specific task such as creating a new account as a user or managing the accounts of all users as an administrator.

Fine details will be listed in the next stage explaining how and what each distinctive feature. In what is known as „Backlog item“.

2.1 Backlog item:

A "Backlog Item" simply defines a distinct piece of functionality that has yet to be delivered for a product. The Product Backlog is a term used to describe all of the remaining Backlog Items, and a Sprint Backlog is a term used to describe a subset of them that a Scrum team have committed to deliver in a sprint.²

3. Backlog item and time estimation:

In this paragraph, all project requirements will be listed in tabular form including estimated time to complete these elements. Where the table includes a list of the elements to be accomplished during the project that the customer needs.

E-Scooter							Velocity: 5.0		
Theme	ID	User Story	Acceptance Criteria	Comments	Velocity: 5.0				
					Sprint	Status	Points	Days	
Administration	ADM1	As Admin I want to Submit new Account So I can Add this account in databank	a) Account Data is stored b) Owner receives a notification	If a new account is created it will successfully be added to the Datenbank; if the wasn't no errors by creating the account.	Sprint 1	To do	5.0	1.0	
	ADM2	As Admin I want to be able to remove accounts So I can remove any account	a) Account data is deleted b) user receives a notification	wenn there ist harm account like hack account , the admin allowed to remove the account itself, or wenn any customer can't remove his account , he can taking with the service and the admin can do it	Sprint 1	To do	5.0	1.0	
	ADM3	As Admin I want to be notified of suspicious account activity So I can decide individually	a) Multiple failed login attempts b) Rents in far apart locations within a determined timeframe	Range and timeframe need to be adjusted according to the scope of the project, i.e. single city or multiple citys	Sprint 1	To do	5.0	1.0	

		whether a reaction is necessary	c) Admin is notified with a list containing suspicious activities and their occurrences					
ADM4	As Admin	I want to be able suspend an Account So I can ensure safety	a) Admin logs into an admin section to review reports of suspicious activity and either suspends the account in question or puts the report on hold b) Either decision is logged with the necessary informations c) Sms / email notification for the user and status change to "suspended" in his account.	The admin is able to suspend a account if his account is tricky. The account user gets a E mail notification.	Sprint 1	To do	5.0	1.0
Total for theme 'Administration'							20.0 points / 4.0 days	
Customer registration and management	CRA1	As User I want to create a new account So I can utilize the offered services	a) User name b) Password c) Email d) enter the payment method e) Adress		Sprint 1	To do	5.0	1.0

	CRA2	As User I want to Delete my account So I can	a) Confirm with Email b) input password	To delete an account, you must verify. Is the account owner or someone else really doing this operation? Therefore, the client gets a verification message sent to him via email or phone number	Sprint 1	To do	5.0	1.0
	CRA3	As User I want to Modification account So I can Edit Email , Password & Payment method	a) Email verification b) Save modification	To Edit an account, you must verify. Is the account owner or someone else really doing this operation? Therefore, the client gets a verification message sent to him via email or phone number	Sprint 1	To do	3.0	0.6
	CRA4	As User I want to add a payment method So I can accelerate payments	a) check the validation of the bankaccount b) link the Bank account c) Input the BIC or User ID d) input the PIN e) verification	In this part it is very important to check if the bank account valid or not , the first step should the customer all information of his account then submit it . with Onlinebank there is one more step , he should put the TAN for more security	Sprint 1	To do	5.0	1.0
Total for theme 'Customer registration and management'							18.0 points / 3.6 days	
Payment through an external service provider	PTA1	As User I want to Choose a payment method So I can pay with Visa,	a) OnlineBanking b) PayPal c) Visa Card	The user is able to choose a payment method of his/her choice.	Sprint 1	To do	5.0	1.0