RUP Artifacts

<Hitchhiking app>

Prepared by <Better Name Pending Group (BNP)>

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Version History			
Editor's Name	**Date** (DD/MM/YYYY)	**Reason for Changes/Sections Updated**	**Version**
Du Tham Lieu	05/09/2021	Added Bussiness Goals & Objectives, added Non-Functional Requirement	pre-alpha
Fadi Younes	06/09/2021	Added Roles and responsibilities, Use-cases, and Glossary	pre-alpha
Du Tham Lieu	06/09/2021	Revised Phases, augmented Inception phase's activities	alpha

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1. Business Goals and Objectives

1. Have a working app at the end of the development period
2. Have at least 500 downloads within 1 week of launch
3. Once the app has reached a critical mass (for instance, 1000 monthly users) start putting non-invasive advertisements and low monthly fees (TBA) to keep the app ad-free
4. 20% of the first-month revenue for advertisement
5. Expanse to other populated regions once monthly new users stop growing
6. Provide bug fixes, new features, improvements every 2 weeks after launch

2. Roles and responsibilities

Stakeholder's Name	Roles	Responsibilities
Fadi Younes	Back-end / Project Manager	Design the logic of the app
Karam Shbeb	Front-end / Team Lead	Design the logic of the app
Du Tham Lieu	Front-end	Design the user interface
Kamil Sabbagh	Back-end	Organize, plan the phrases, write the documents

3. Requirement Analysis and Specifications

3.1. Functional requirements

ID #	Epics (Core Feature)	Priority	Any Other Label
1	General Users and Admin must be able to log in using their credentials	Must	
2	General Users have to verify their email address and phone number before they can interact further after login	Must	
3	The app should encrypt any information before	Should	

	sending it to the server or save it in the cache		
4	The Driver should be able to offer their service, the Passenger should be able to request and pay for service	Must	
5	The general user should be able to report any problem to the support team	Must	
6	The general user should be suspended from interacting with the app until further review when they have been flagged for more than a predetermined times	Should	
7	The app should keep a log of the driver's GPS location periodically during the trip	Must	
8	The app will send notifications for users once a new event appears	Should	

3.2. User Stories

User Type	Epics (Core Feature)	User stories
Passenger	Search for trips	**As:** a passenger **I want:** to search among the available trips **So That:** I can choose the trip that suits me the best
Admin	Display phone numbers	**As:** an admin **I want:** to see all the users' contact numbers **So That:** I can contact any user when needed
Passenger /driver	Phone verification	**As:** a general user **I want:** to be able to verify my phone number **So That:** no spam users can use the app
Driver	Cancel a trip	**As:** a driver **I want:** to be able to cancel my trip when I want **So That:** no other users register to it since I am not traveling anymore

Driver	Create a trip	**As:** a driver **I want:** to be able to mark myself as traveling **So That:** people around me can join me
Driver	Share contact info	**As:** a driver **I want:** to be able to show people my contact info **So That:** passengers can contact me
Passenger /driver	Notification system	**As:** a general user **I want:** to receive notifications on my device **So That:** I know when people contact me or a new event happens
Driver	Online payment	**As:** a driver **I want:** to be able to link my bank card to the app **So That:** people can pay me through the app
Passenger	Share live location	**As:** a passenger **I want:** to see my driver live location **So That:** I found him/her quickly
Passenger	Account report	**As:** a passenger **I want:** to be able to report the drivers who post fake trips **So That:** the admin will block them to make the application more reliable
Admin	Account report	**As:** an admin **I want:** the application to check if the driver trip is fake or not using his/her GPS **So That:** I can verify fake reports
Passenger	Rate system	**As:** a passenger **I want:** to be able to rate my driver after the end of the trip **So That:** good drives will be easier to find
Driver	Rate system	**As:** a driver **I want:** rate my passengers **So That:** good and respectful passengers will be easier to recognize
Driver	Add trip details	**As:** a driver **I want:** to set all the information about my trip and the number of seats left **So That:** suitable people can join

Passenger	View trip details	**As:** a passenger **I want:** all the information about drivers that might pick me up **So That:** i can the most suitable
Passenger	Account reviews	**As:** as a passenger **I want:** leave public comments about the driver **So That:** other people can get a better idea about the driver

4. Non-Functional Requirement

NFR No.	Type	Requirement	How we will achieve this
NFR1	Security	Have protection against cyber-attack (DDOS,...etc)	We'll use Cloudfare's service to soak up malicious request
NFR2	Availability	99.86% uptime (server down at most 1hour in 30 days)	We'll use a load balancer, like the kind of AWS offers
NFR3	Performance	After the second time launched, the app should load in less than 3 seconds when the number of users is less than 5000	We'll compress media and use cache
NFR4	Performance	Able to handle roughly 10000 users when deployed	We'll use a load balancer like the kind of AWS
NFR5	Performance	The trips page should load in less than 10 seconds for an internet speed higher than 10Mb/s in 99.9% of cases	We'll preload the views when the app launch

4. Software Development plan

Inception Phase

#Iteration	Timeline	Stakeholders	Activities	Artifacts
#1	25/08/2021 to 28/08/2021 (3 days)	Client, Project Manager (PM)	- Determine Business goals and objectives with valid justification - Establish roles and responsibilities	- Deliver the documentation of achieved milestones - Augment documentation
#2	29/08/2021 to 01/09/2021 (3 days)	PM and Team Lead (TL)	- Requirement engineering (20% user stories) - Requirement engineering (Functional and Non-functional)	- Update the documentation of achieved milestones with User stories - Augment documentation
#3	02/09/2021 to 04/09/2021 (2 days)	PM and TL	- Update and revise the phases - Re-define roles - Refine project's scope - Revise Business Goals and Objectives	- Revise Documentation - First design
#4	05/09/2021 to 06/09/2021 (7 days)	Developers, PM and TL	- Revise functional and non-functional requirements - Refine User stories - Project other phases - Produced first design - Produced first prototype	- First prototype

Elaboration Phase

#Iteration	Timeline	Stakeholders	Activities	Artifacts
#1	06/09/2021 to 08/09/2021 (2 days)	PM	- Deciding on the frameworks - Refine first prototype. - Refine US, Business Goals, and Objectives	- Document Most user stories - ...
#2	09/09/2021 to 11/09/2021	Developers and team tech lead	- Produce the second prototype - Revise phases	- Software architecture document

	(2 days)		- Software Architecture - Test Plan	- Test Plan Document

Construction Phase				
#Iteration	**Timeline**	**Stakeholders**	**Activities**	**Artifacts**
#1	10/09/2021 to 17/09/2021 (7 days)	Developers	- Implement Feature 1/ user story 1 - Unit test cases for feature 1	- Working feature 1 branch - Unit test results
#2	17/09/2021 to 24/09/2021 (7 days)	Developers	- Implement Feature 2 - Unit test cases for feature 2	- Working feature 1 branch - Unit test results
#3	17/09/2021 to 24/09/2021 (3 days)	Developers, TL	- Refactoring code - Optimize code	- Github repository - Merged branches - Integration and ended to end test results - Final README for developers and Users

Transition Phase				
#Iteration	**Timeline**	**Stakeholders**	**Activities**	**Artifacts**
#1	25/09/2021 to 30/09/2021 (5 days)	Developers	- Deploy apps for beta testers - Bug fixes	- Running app (beta) on PlayStore and App store
#2	01/10/2021 to 07/10/2021	Developers	- Final public release	- Working Product

Production Phase				
#Iteration	**Timeline**	**Stakeholders**	**Activities**	**Artifacts**

#1	08/10/2021 to TBA	TBA	- TBA	- TBA

5. Glossary:

Passenger: Person who travels by getting free/paid lifts in passing vehicles.

Driver: Person who gives a passenger a ride.

Trip: A service offered by the driver to the passenger

General Users: Passenger and Drivers; Users who do not have administrative privileges

Admin: User who has administrative privileges

Client: People who pay for this app

PM: Project Manager; consultant responsible for or

TL: Team (Tech) Lead