

RUP Artifacts

<Hitchhiking app>

Prepared by <Better Name Pending Group (BNP)>

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<Github [here](#)>

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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
Fadi Younes	10/09/2021	Modify Stakeholders	Gamma

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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
Kamil Sabbagh	Back-end	Organize, plan the phrases, write the documents
Du Tham Lieu	Front-end	Design the user interface
Users	Use the application, suggest new features, and report existing bugs.	Contact technical support to report bugs and problems. Provide feedback to improve the website.
Investors	Providing financial support to the development process.	Determining if some features are worth the funding. Deciding the amount of money to spend on certain features.
QA testers	Assures the quality of the new features.	End to end testing.

3. Requirement Analysis and Specifications

3.1. Functional requirements

ID #	Epics (Core Feature)	Priority	Any Other Label
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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 sending it to the server or save it in the cache	Should	
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 Cloudflare'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	We'll preload the views when the app launch

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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)	<ul style="list-style-type: none"> - Determine Business goals and objectives with valid justification - Establish roles and responsibilities 	<ul style="list-style-type: none"> - Deliver the documentation of achieved milestones - Augment documentation
#2	29/08/2021 to 01/09/2021 (3 days)	PM and Team Lead (TL)	<ul style="list-style-type: none"> - Requirement engineering (20% user stories) - Requirement engineering (Functional and Non-functional) 	<ul style="list-style-type: none"> - Update the documentation of achieved milestones with User stories - Augment documentation
#3	02/09/2021 to 04/09/2021 (2 days)	PM and TL	<ul style="list-style-type: none"> - Update and revise the phases - Re-define roles - Refine project's scope - Revise Business Goals and Objectives 	<ul style="list-style-type: none"> - Revise Documentation - First design
#4	05/09/2021 to 06/09/2021 (7 days)	Developers, PM and TL	<ul style="list-style-type: none"> - Revise functional and non-functional requirements - Refine User stories - Project other phases - Produced first design - Produced first prototype 	<ul style="list-style-type: none"> - First prototype

Elaboration Phase

#Iteration	Timeline	Stakeholders	Activities	Artifacts
#1	06/09/2021 to 08/09/2021 (2 days)	PM	<ul style="list-style-type: none"> - Deciding on the frameworks - Refine first prototype. - Refine US, Business Goals, and Objectives 	<ul style="list-style-type: none"> - Document Most user stories - ...
#2	09/09/2021 to 11/09/2021 (2 days)	Developers and team tech lead	<ul style="list-style-type: none"> - Produce the second prototype - Revise phases - Software Architecture - Test Plan 	<ul style="list-style-type: none"> - Software architecture document - Test Plan Document

Construction Phase

#Iteration	Timeline	Stakeholders	Activities	Artifacts
#1	10/09/2021 to 17/09/2021 (7 days)	Developers	<ul style="list-style-type: none"> - Implement Feature 1/ user story 1 - Unit test cases for feature 1 	<ul style="list-style-type: none"> - Working feature 1 branch - Unit test results
#2	17/09/2021 to 24/09/2021 (7 days)	Developers	<ul style="list-style-type: none"> - Implement Feature 2 - Unit test cases for feature 2 	<ul style="list-style-type: none"> - Working feature 1 branch - Unit test results
#3	17/09/2021 to 24/09/2021 (3 days)	Developers, TL	<ul style="list-style-type: none"> - Refactoring code - Optimize code 	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - Deploy apps for beta testers - Bug fixes 	<ul style="list-style-type: none"> - Running app (beta) on PlayStore and App store

#2	01/10/2021 to 07/10/2021	Developers	- Final public release	- Working Product
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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