

# Title: Faster, a Localized Errand Request and Delivery App

## Description:

Faster is a user-friendly application that connects individuals who need errands done by reliable deliverers within their local area. This app aims to simplify daily tasks by offering a platform for posting, accepting, and fulfilling errand requests with ease. The app mainly focuses on simple daily delivery requests.

## Business Requirements:

- Both errand posters (**users**) and **deliverers** must **register** and **log in** with their **name** and **phone number**.
- Users can **post** errands with details about the items to be delivered, like **description**, **desired delivery time**, **origin**, **destination**, **compensation**, and **images**.
- Deliverers can **browse** through **posted errands** and **accept** ones they wish to complete.
- After an errand is completed, users can **rate** and **comment** deliverers.
- If deliverers by any reason cannot complete the errands, they can **cancel** the errand schedule. Users will be **notified** and the post remains.
- Deliverers will have a **delivery history** with **ratings** and **comments** visible to users to ensure transparency and trust.
- Faster will feature an integrated in-app wallet system that shows **balance amount** for both users and deliverers. When the errand has been completed, the compensation declared in the post will transact from posters to deliverers wallet.

**Nouns**

**Verbs**

## Nouns and Verbs:

### Nouns:

- User
- Deliverer
- Name
- Phone number
- Description
- Desired delivery time
- Origin
- Destination
- Compensation
- Images
- Posts
- Ratings
- Comments
- Delivery History
- Balance amount

### Verbs:

- Register
- Login
- Post
- Browse
- Accept
- Complete
- Rate
- Comment
- Cancel
- Notified

## Summary of Classes, Attributes and Associations:

User(class):

- ID(attribute)
- Name(attribute)
- Phone number(attribute)
- Balance amount(attribute)
- Register(method)
- Log in(method)

Poster(Inheritance from User):

- Posts(attribute)
- Post(method)
- Rate (method)
- Comment (method)
- Notified (method)

Deliverer(subclass of User):

- Delivery history(class)
- Browse (method)
- Accept (method)
- Complete (method)
- Cancel (method)

Post(Inheritance from class):

- Description(attribute)
- Desired delivery time(attribute)
- Origin(attribute)
- Destination(attribute)
- Compensation(attribute)
- Images (attribute)

Delivery history(deliverer class is composed of delivery history):

- Ratings(attribute)
- Comments (attribute)

## Target Audience:

- Individuals with busy schedules looking for assistance with daily errands. Those people are potential posters who request for errands to be accomplished.
- Freelancers or part-time workers seeking flexible earning opportunities through errand delivery. Those people are potential deliverers.

## Rules:

- There are two types of users, posters and deliverers.
- All users must register with their real name and phone number.
- Posts must include description, desired delivery time, origin, destination, compensation, images.
- A post can have no or multiple images.
- Posts will be shown to the deliverer account only on a post board. Deliverers can accept the post which will then be removed from the board.
- A post can only be accepted by one deliverer.
- Deliverers can accept as many errands as they want.
- Whenever deliverers accept, cancel, or complete the delivery, users will be notified.
- Users can see who are their deliverers.
- When deliverers complete the errand requested, users must give a rating and comment before they can post the next errand.
- Deliverers have a delivery history board, only visible to the user account. The delivery history board includes the past posts completed but only with ratings and comments.
- When the errand is accomplished, the declared compensation in the post will be transacted from the user's balance to deliverer's.

## Challenge Questions:

- Should the app pay more attention to ensuring the safety and security of both parties?
- If there were disputes between deliverers and posters, how should we resolve them?
- How should we handle the situation when deliverers cancel the delivery other than just notifying users?
- Do we need to set a maximum amount of the errands a deliverer can accept?
- Can users cancel the delivery?
- Should delivery history reveal a deliverer canceled deliveries?

## User Persona:

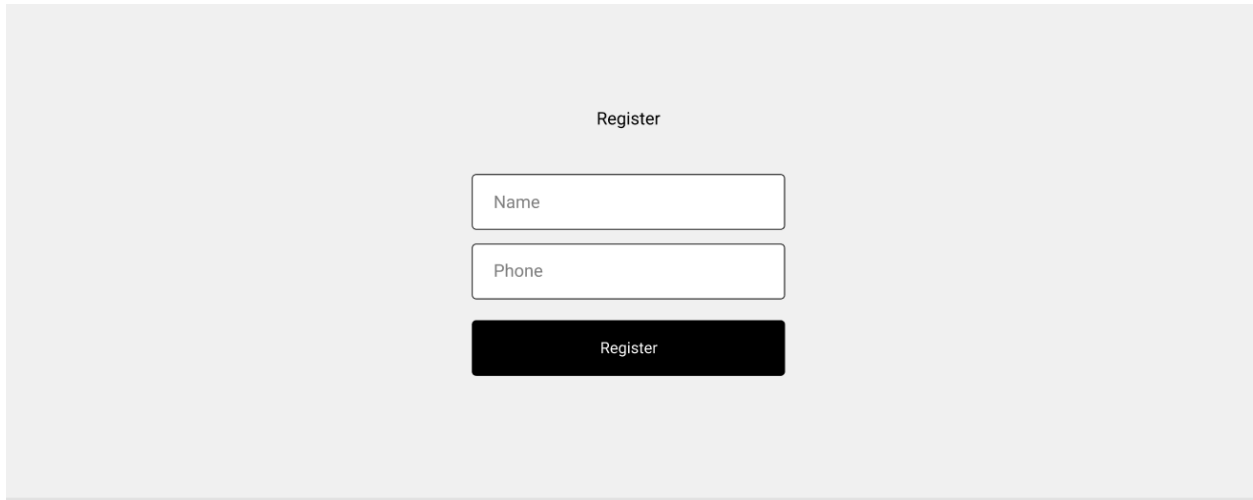
<p><b>Bob</b> 🧑</p> <p>He is a full-time software engineer. His mom is aged and sick. Though he has a car, he is too busy to make food for his mom every day. He wants to use Faster to schedule daily food delivery on-time to ensure his mom can have good meals every day.</p>	<p><u><b>Have car</b></u></p> <p><b>Amy</b> 🧑</p> <p>She is a freelancer who owns a car. She wants to use Faster to earn some money. She has plenty of leisure time so that she can accept many delivery requests daily</p>
<p><u><b>full-time</b></u></p> <p><b>Mike</b> 🧑</p> <p>He is a cashier who needs to take care of his retail shop. His 6-years-old daughter is in boarding school and often needs new stationeries. He does not own a car, so he wants to use Faster to find someone to help him deliver stationeries, so that he can save money not using taxi service.</p>	<p><u><b>freelancer</b></u></p> <p><b>Tom</b> 🧑</p> <p>He is a poor freelancer who does not have a car. He wants to use Faster to make some earnings. He wants to accept low compensation rate delivery so that he can complete the delivery by bike.</p> <p><u><b>No car</b></u></p>

## User Stories:

- As a full time software engineer, although Bob has a car, he is too busy to make food for his aged mom. Bob wants to post an errand with detailed information, especially delivered time, so that he can find someone to buy food for his mom within the desired time frame.
- As a freelancer who does not own a car, Tom wants to browse available errands, so I can choose one to complete. Like the one with the nearest location or flexible time frame, so that Tom can complete the errand by his bike.
- As a full time cashier without a car, Mike wants to save money from calling Uber to deliver stationeries for his daughter in boarding school by himself. He wants to rate and comment on a deliverer, so that others know about his experience.
- As a freelancer who owns a car, Amy wants to have a delivery history, so that users can trust my reliability and she can potentially get more errands with higher compensation.

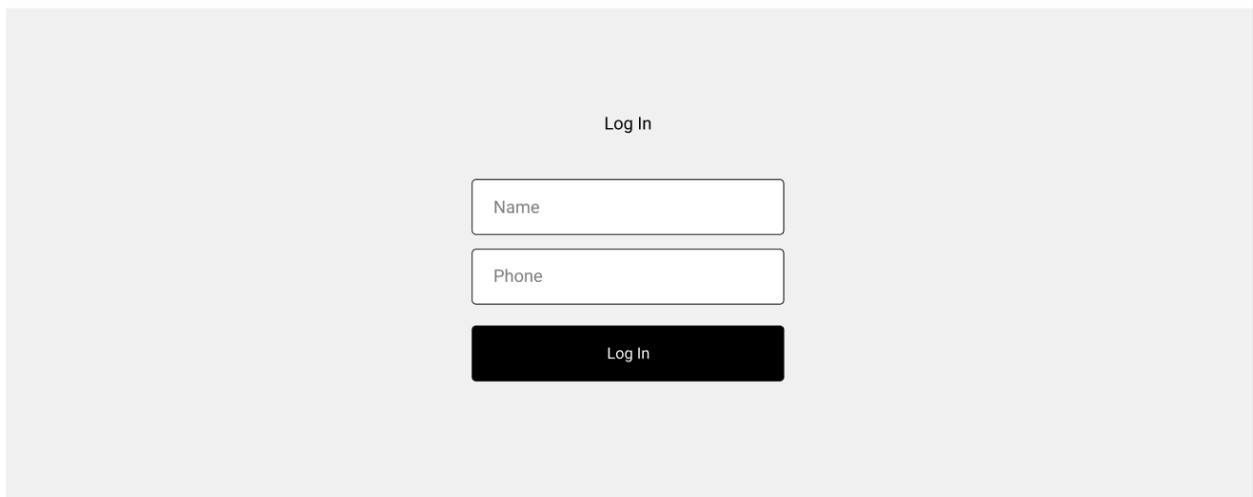
## Interface Low-Level Mockups:

Register page:



A low-level mockup of a registration page. It features a light gray background. At the top center, the word "Register" is displayed in a small, black, sans-serif font. Below this title, there are two white rectangular input fields with thin black borders. The first field is labeled "Name" and the second is labeled "Phone", both in a small, gray, sans-serif font. At the bottom center, there is a solid black rectangular button with the word "Register" written in white, sans-serif font.

Login page:



A low-level mockup of a login page. It features a light gray background. At the top center, the words "Log In" are displayed in a small, black, sans-serif font. Below this title, there are two white rectangular input fields with thin black borders. The first field is labeled "Name" and the second is labeled "Phone", both in a small, gray, sans-serif font. At the bottom center, there is a solid black rectangular button with the words "Log In" written in white, sans-serif font.

Deliverer main page:

Current Errands

Search

Filter

Search

Title

Description

delivery time

origin

destination

compensation

images

Accept

Title

Description

delivery time

origin

destination

compensation

images

Accept

Title

Description

delivery time

origin

destination

compensation

images

Accept

Title

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Accept

Poster main page:

Post Your Errand Below

title

description

delivery time

origin

destination

compensation

image

Post

User comment & rate page:

Please Leave Your Comment

comment

rate

comment & rate



Delivery History page:

Delivery History

Title

Description

rating

comment

Title

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## UML Class Diagram:

