# Faster, a Localized Errand Request and Delivery App

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# 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. Unlike other currently existing food delivery apps like UberEats and DoorDash, Faster focuses on simple daily delivery requests. A request can be as simple as delivering an envelope or a plot of flowers. Faster allows users to have a larger flexibility in describing what they want deliverers to deliver and how deliverers deliver.

# **Business Requirements:**

**<u>Notice</u>**: The business requirement below is under the assistance from ChatGPT version 4. With the prompt "I have the description (the description above), please generate a business requirement for me".

## Nouns Verbs

Faster is designed to seamlessly connect individuals requiring assistance with errands to dependable deliverers in their vicinity, streamlining the process of managing daily delivery tasks. To participate, both errand posters and deliverers are required to register and log in using their name and phone number, ensuring a secure and personalized experience. Users have the capability to detail their errand needs, specifying the item descriptions, desired delivery times, pickup and drop-off locations, compensation offers, and accompanying images for clarity. On the flip side, deliverers can accept these posts, selecting errands they are equipped to complete. Following the fulfillment of an errand, users are encouraged to provide feedback through ratings and comments on the deliverer's performance, fostering a culture of trust and accountability. In instances where a deliverer is unable to complete an errand as planned, they have the option to cancel, triggering a notification to the user and leaving the errand available for others to accept. Central to Faster's functionality is its integrated in-app wallet system, which displays balance amounts for both users and deliverers, facilitating direct compensation transfers from errand posters to deliverers upon the successful completion of an errand. This comprehensive approach to errand management underscores Faster's commitment to convenience, security, and community trust.

## 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
- Select
- Accept
- Complete
- Rate
- Comment
- Cancel
- Notify

# Summary of Classes, Attributes and Associations:

#### User(class):

- userID(attribute)
- userName(attribute)
- phoneNumber(attribute)
- balanceAmount(attribute)
- register(method)
- logIn(method)

#### Poster(Inheritance from class User):

• posts(attribute)

- post(method)
- rate (method)
- comment (method)

#### Deliverer(Inheritance from class User):

- accept (method)
- complete (method)
- cancel (method)
- notifyUser(method)

#### Post(class):

- description(attribute)
- desiredDeliveryTime(attribute)
- origin(attribute)
- destination(attribute)
- compensation(attribute)
- image (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 up to 2 errands at the same time.
- 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.
- When the errand is accomplished, the declared compensation in the post will be transacted from the user's balance to deliverer's.

# **Challenge Questions:**

- If there were disputes between deliverers and posters, should we provide a platform like a communication room for them to chat?
- 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 we allow users to tip deliverers after they complete the errand?

## Dimensions with Ranks for Posters:

- 1. People live in urban area vs people live in rural area
- 2. Young people vs old people
- 3. Busy people vs people with leisure time
- 4. People have daily errands vs people who do not
- 5. People who prefer human service **vs** people who rely on themselves

old

Amy 👩

## User Persona for Posters:

Bob 👨

	He is an old software engineer who lives in an urban area. His wife loves flower. He wants to use <i>Faster</i> to schedule a daily flower delivery request from different local flower shops for his wife at home so that his wife will be happy.	<u>574</u>	She is a mid-aged housewife who lives in a rural area. She wants to use <i>Faster</i> to deliver bento box made by her to his son in boarding school daily because he wants his son to eat healthy home-made food.
<u>urban</u>			<u>rural</u>
	Mike  He is a college student lives in an urban area. He wants to use <i>Faster</i> to deliver love letters to his girl friend as surprise. He wants to use <i>Faster</i> because it is fast and cheap. He does not waste time on transportation in this traffic-heavy city.	young	Tom  He is 15-years-old high school teenager. He wants to use <i>Faster</i> to deliver his car toys to his best friends in the village so that they can exchange their toys and share the same joy. He does not want to walk by himself because the road in the rural area is not well-constructed.

## **User Story for Posters:**

- As an old software engineer who lives in an urban area, Bob wants to post an
  errand about fresh flower delivery from different local flower shops to his wife at
  home with detailed information, especially delivery time, so that his wife who loves
  flowers will be happy.
- As a 15-year-old high school teenager living in a rural area, Tom wants to post images of his car toys to be delivered so that he can make sure his friend will receive the intact toys from him.
- As a college student who just falls in love with his girlfriend, Mike who lives in a traffic-heavy urban area wants to save money and time from transportation himself to deliver love letters to his girlfriend. He wants to make sure the delivery will have a tag so that he can categorize his errand.
- As a mid-aged housewife who lives in a rural area, Amy needs someone to deliver her home-made food to her son in boarding school. She wants to rate and comment on an errand request, so that others know about her experience.

## Dimensions with Ranks for Deliverers:

- 1. Full time worker vs freelancer
- 2. People who drive vs people who do not
- 3. Young people vs old people
- 4. Busy people vs people with leisure time
- 5. People who have flexible schedule **vs** people who have fixed schedule

#### User Persona for Deliverers:

#### Adam 👨 Kate 👩 drive He is a full-time home She is a freelancer who designer who drives to drives. She wants to use work everyday. He wants Faster to earn some to use Faster to make money. She has plenty of some extra earnings by leisure time so that she completing some delivery can accept many delivery requests on his way to requests daily. She wants work weekly, so that he to try to accept errands does not waste extra with highest gasoline in delivery. compensation. full-time freelancer Peter 🤦 He is a local boarding John 🧝 elementary school teacher He is a poor freelancer who rides bike to school who only has a bicycle. daily. He wants to use He wants to use Faster to Faster to make extra make some basic earnings by carrying out earnings for living. He simple delivery requests wants to accept errands not too far away when he nearby so that he can returns to home from complete the delivery by school. He knows lots of bike. students need to deliver do not drive things to their parents.

# User Story for Deliverers:

- As a full time home designer who drives to work everyday, Adam wants to filter errands that have origin near his home and destination near his company, so that he can complete the delivery on his way to work and make extra earnings.
- As a local elementary school teacher who rides a bike, Peter wants to have the
  option to cancel the errand he accepts, so that he can forfeit current errands in
  situations where he needs to take extra care of his students or he cannot
  complete them in time with a bike.
- As a freelancer who owns a car, Kate wants to accept more than one errand at once so that she can earn more money since delivery by a car is fast.
- As a poor freelancer who only has a bicycle, John wants to have a rating, so that he
  can convince other users to trust him to deliver securely by bicycle.

# Interface Low-Level Mockups:

#### User Main page:



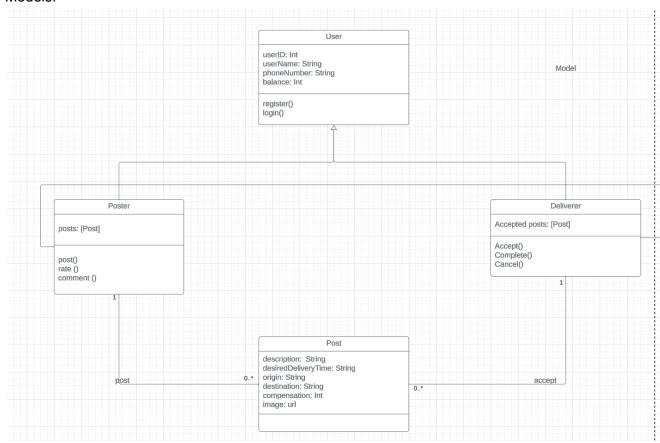
If unclear to see the details, please refer to the link:

https://www.figma.com/file/Zntjc8tw3kt30HEs2XIdmV/Wireframing-(Copy)?type=design&node-id =0%3A1&mode=dev&t=0I7iX2V7L7bhGbx7-1

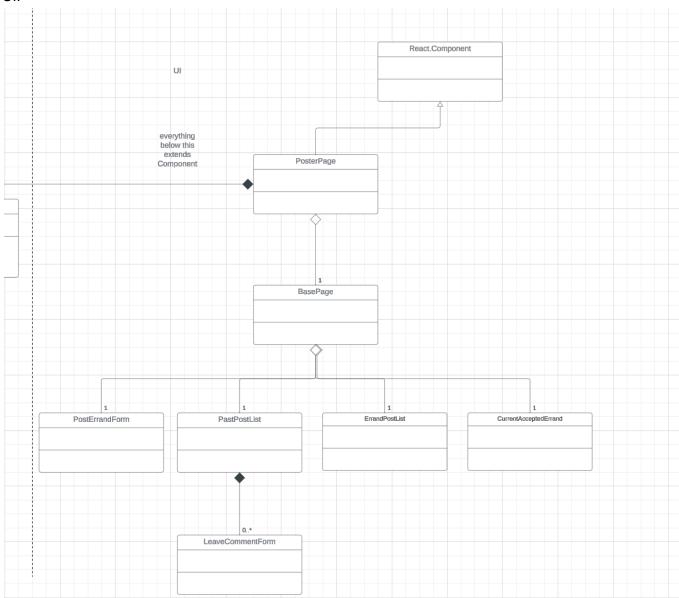
# **UML Class Diagram:**

If unclear to see the details, please refer to the link:

#### Models:







# Overall:

