

Software Requirements Specification (SRS) Document

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Brief problem statement

SuperGenie is an on demand personal assistant for ecommerce. Buying products or services online is a pain. User has to make a lot of decisions and choose between different websites to get the best deal. SuperGenie solves that problem by making it as simple as chatting to order what you want.

We are building a hybrid iOS app that will allow users to place orders via chat. It will have the following components:

Basic Features:

1. Building a realtime chat client
2. Allow users to register via Phone number.
3. Show Previous orders
4. Integrating Payment Gateway and Wallet
5. Push notifications and SMS verification.

Advanced Features(AI/NLP):

6. Order via Speech integration.

System requirements

1. **Angularjs**- Structural framework for dynamic web pages
2. **ionic**- Complete open source SDK for mobile app development
3. **Bootstrap**- HTML, CSS, Javascript framework for developing responsive mobile-first websites
4. **Javascript**- A scripting language to enable web authors to design interactive websites
5. **Node.js**- Open source cross-platform runtime environment for developing server-side web applications

Users profile

This application can be used by people of all ages and genders who can read english and have basic knowledge of operating a smartphone. This application is very useful for people who want to save the trouble of getting into long queues to get movie tickets, railway tickets, flight tickets, groceries etc without even worrying about the payment problems.

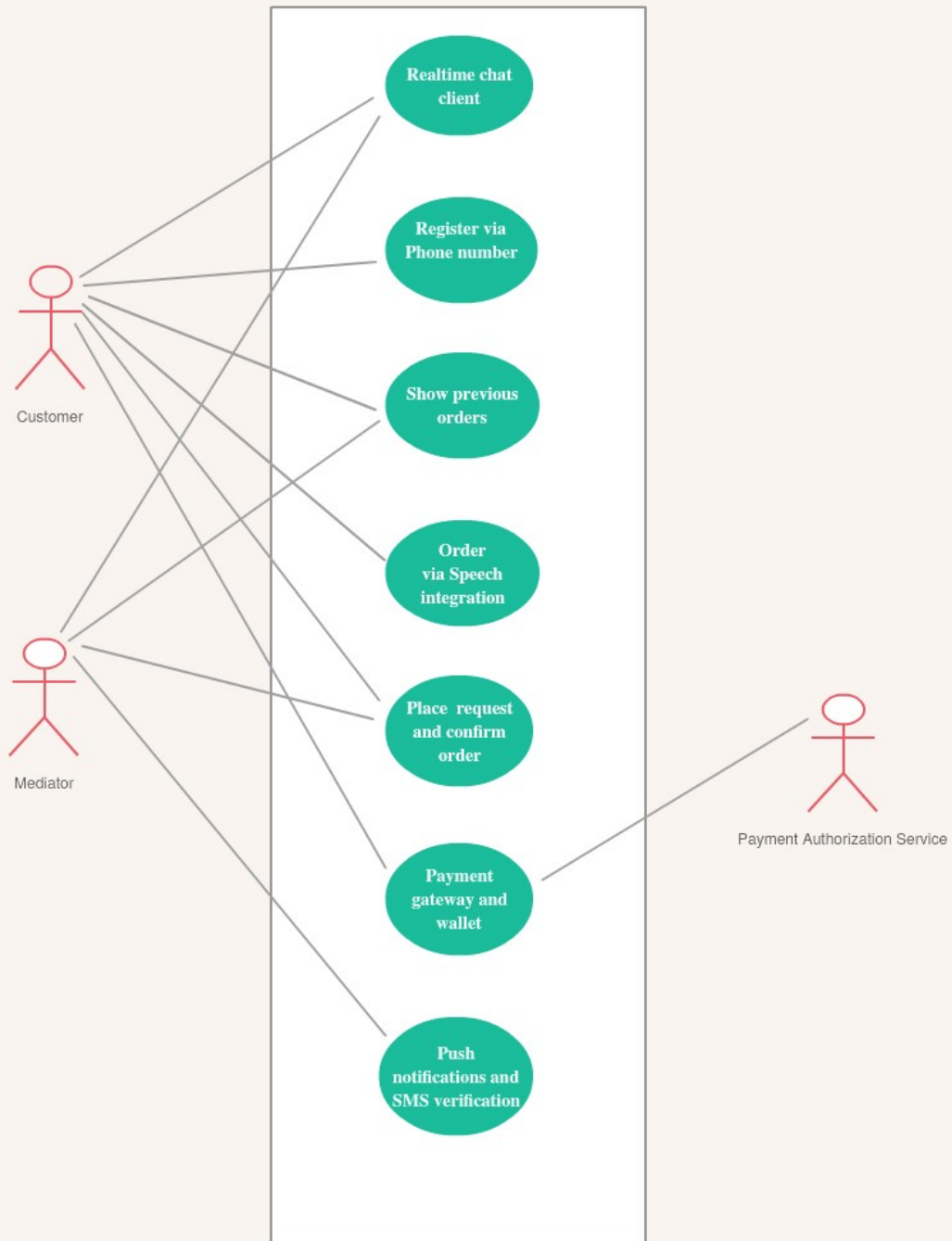
Feature requirements (described using use cases)

No.	UseCase Name	Description	Release
1.	Building a realtime chat client	We want to build a chat client similar to gmail chat or facebook chat but with lesser features needed only for our SuperGenie project. The customer should be able to send a message which would be received by the mediator present who would do whatever is needed.	R1
2.	Place Request and confirm order	The customer should be able to place a request for order and then the mediator should be able to confirm the order.	R1
3.	Allow users to register via Phone number	There must be no hassle of logging up for a new user, the user can just type his/her phone number which will be confirmed by a sms-verification. This phone number is the user's identity	R1
4.	Integrating payment gateway and wallet	Various means to carry out payment- cash on delivery, debit cards, credit cards, master cards, net banking Supergenie cash- online wallet a small software	R1 R2

		program used for online purchase transaction within SuperGenie user account cash framework	
5.	Push notifications and SMS verification	<p>For every order successfully placed, there will be a push notification and an sms confirmation.</p> <p>Further push notifications about new exciting offers on SuperGenie.</p>	R1 R2
6.	Show previous orders	The customer when logged in from his account should be able to see his previous orders. Also the mediator chatting with the customer should be able to see the previous orders of the customer and give him options related to those.	R2
7.	Order via Speech integration	Learn words from co-occurring audio input and to extract an order placed	R2

Use case diagram

UseCase Diagram



Use case description

Use Case Number:	UC-1
Use Case Name:	Realtime chat client
Overview:	We want to build a chat client similar to gmail chat or facebook chat but with lesser features needed only for our SuperGenie project. The customer should be able to send a message which would be received by the mediator present who would do whatever is needed.
Actors:	Customer Mediator
Pre condition:	Internet network should be available to the customer.
Flow:	Main (success) Flow: 1. The customer types the message and sends it in the chat client. 2. Mediator on the other side receives it.
	Alternate Flows: No alternate flow.
Post Condition:	The mediator should now be able to give the options to the customer regarding the request.

Use Case Number:	UC-02
Use Case	Register via phone number

Name:	
Overview:	While logging in the application for the first time , the user types his phone number to get a sms-verification
Actors:	Customer, DB
Precondition:	The application must have been downloaded, the customer must have a phone number
Flow:	<ol style="list-style-type: none"> 1. Adding the phone number 2. getting a sms-verification 3. Verified and start using the application
	<ol style="list-style-type: none"> 1. Adding Phone number 2. getting sms-verification 3. wrong code input, back to 1 or send sms-verification again
Post Condition:	Must be able to use the application successfully

Use Case Number:	UC-3
Use Case Name:	Place Request and confirm order
Overview:	The customer should be able to place a request for order and then the mediator should be able to confirm the order.
Actors:	Customer

	Mediator
Precondition:	The mediator has given the options to the customer and the customer has decided on the order.
Flow:	Main Flow: 1.Customer, after choosing the order, places the request. 2.Mediator confirms the request
	Alternate Flows: If the customer has to cancel the order 1.Customer makes the request to the mediator to cancel the order. 2.Mediator cancels the order.
Post Condition:	The order has been placed.

Use Case Number:	UC-04
Use Case Name:	Payment Gateway and Wallet
Overview:	The customer has to pay for the goods or services he has ordered for via one of the offered payment gateways.
Actors:	Customer, Bank, Shop
Precondition:	customer must have ordered some service or goods. He/She must have required prerequisites for the selected mode of payment
Flow:	

	<ol style="list-style-type: none"> 1. Get a link to payment gateway 2. Select mode of payment on the site. 3. Payment successful on the site 4. Order confirmed
	<ol style="list-style-type: none"> 1. Get a link to payment gateway 2. Select mode of payment on the site 3. payment unsuccessful 4. SMS-notification of that fact 5. retry option
Post Condition:	<ol style="list-style-type: none"> 1. The order must be placed and successfully confirmed 2. The customer must be notified of the status of the order

Use Case Number:	UC-05
Use Case Name:	Push Notification and sms verification
Overview:	For every order successfully placed, there will be a push notification and an sms confirmation. Further push notifications about new exciting offers on SuperGenie.
Actors:	Customer, sms service provider, Supergenie authorization center
Precondition:	<ol style="list-style-type: none"> 1. Order placed via chat 2. Method of payment confirmed
Flow:	<ol style="list-style-type: none"> 1. Order placed via chat 2. Confirmation message sent to the customer 3. Order confirmed 4. Push notification received

	<p>If sms not verified</p> <ol style="list-style-type: none"> 1. push notification sent to verify the sms again <p>If sms verification goes wrong</p> <ol style="list-style-type: none"> 1. resend sms verification code
Post Condition:	<ol style="list-style-type: none"> 1. Cash on Delivery ready for payment after sms verification 2. Order confirmed and on its way :-)

Use Case Number:	UC-06
Use Case Name:	Show previous orders
Overview:	The customer when logged in from his account should be able to see his previous orders. Also the mediator chatting with the customer should be able to see the previous orders of the customer and give him options related to those.
Actors:	Customer Mediator
Pre condition:	Mediator should be able to give the options to the customer which are similar to the previous orders made by the customers.
Flow:	<p>Main (success) Flow:</p> <ol style="list-style-type: none"> 1. The mediator checks the precious orders of the customer. 2. The mediator then gives the options to the customers regarding the previous orders.
	<p>Alternate Flows:</p> <p>If no previous orders made then the mediator should give options as he wishes.</p>

Post Condition:	The customer has received good options for making the order request.
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Use case description

Use Case Number:	UC-07
Use Case Name:	Order Via Speech recognition
Overview:	In the 2nd release, the customer will be able to order for goods and services via speech, which will be interpreted by NLP, and other speech recognition algorithms.
Actors:	Customer, Speech recognition software, Sales Executive
Precondition:	Must have the application with a phone number verified.
Flow:	<ol style="list-style-type: none"> 1. customer speaks into the phone, his orders. 2. recognition software prints interpretation to the screen for confirmation. 3. confirmed by the customer
	<ol style="list-style-type: none"> 1. Customer speaks into the phone, his orders 2. Recognition software interpretation is wrong 3. Order typed by the customer
Post Condition:	Order must be sent to the sales executive.