Food Grabber

(A Food Delivery App)

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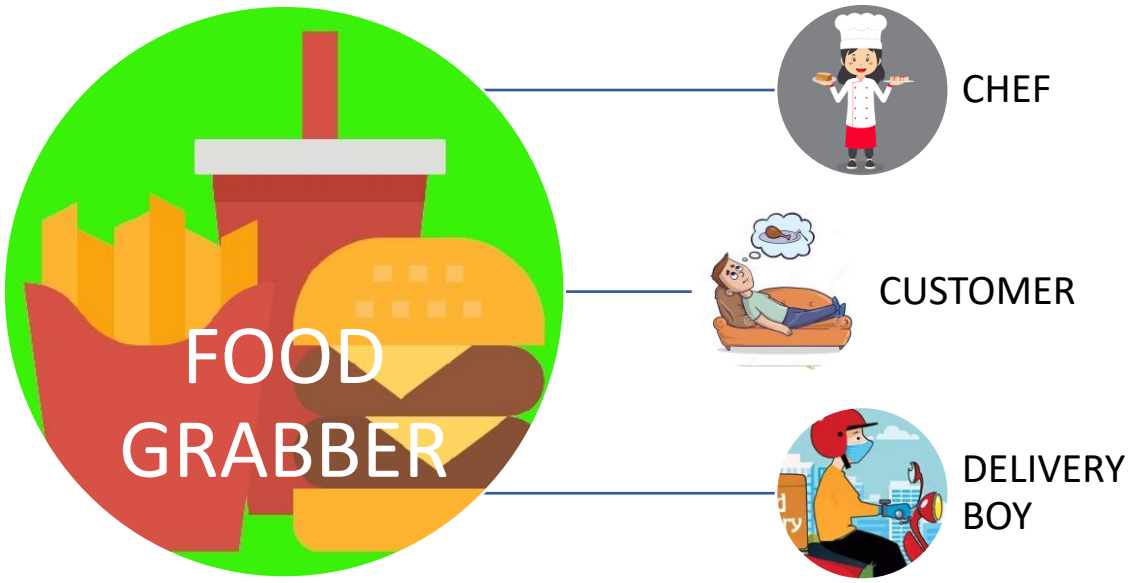
Objectives:

1) To help people to get food from home
2) To help chef to sell their food easily and more
3) To ease the situation of people to have their favorite dish any time
4) To help people to enjoy food without facing traffic jam
5) To solve the problem of wasting time in order to get food for family functions
6) To make the surprise easier for a person's beloved so that they shouldn't have to worry for cakes on time
7) To help people by employing them as food delivery man

Theory:

1) It is a food Delivery app.
2) It has 3 type of user customer, chef, delivery boy.
3) All should be sign up to use the app.



4)Customer can place order from dishes posted by chef.

5)Then chef prepared the order and handed delivery boy to deliver the order.

6)Then the delivery boy will deliver the order to the respected customer.

7)It is a live tracking app to be a fasted delivery app.

Implementation:

Detailed Description:

STEP 1: CHOOSE THE BUSINESS MODEL

There are lot of Business Model of a Food Delivery App. From those I choose ORDER AND DELIVERY MODEL. Here The Chef uploads its menu in the application, the client can choose dishes, make an order and pay for it. When the chef sees the order, it can be confirmed or rejected. When the order is ready it's given to the delivery boy. The last step is delivery to the customer.

STEP 2: CHOOSE THE REVENUE MODEL

I choose a revenue model where included Delivery charges, Revenue sharing, Advertisement and promotional services, Surge pricing, Daily deals and White labeling.

STEP 3: ANALYZE TRENDS

Food delivery services are quite popular, so there is a high level of competency. If we want to have success, we should understand the latest trends in this area. The last two trends are making orders on social media and chatbots. People have too many applications and notifications and they don't want to install one more. If we can integrate food delivery in the app they already have, we do it.

STEP 4: SELECT THE FUNCTIONALITY

USER PANEL:

- ➔ Sign-up and profile management
- ➔ Cart
- ➔ Scheduling order
- ➔ Push notifications
- ➔ Geolocation and real-time tracking
- ➔ Delivery address
- ➔ Food List
- ➔ Chef list

CHEF PANEL

- ➔ Dashboard
- ➔ Chef profile
- ➔ Order management
- ➔ Payment management
- ➔ Special offers

DELIVERY PANEL

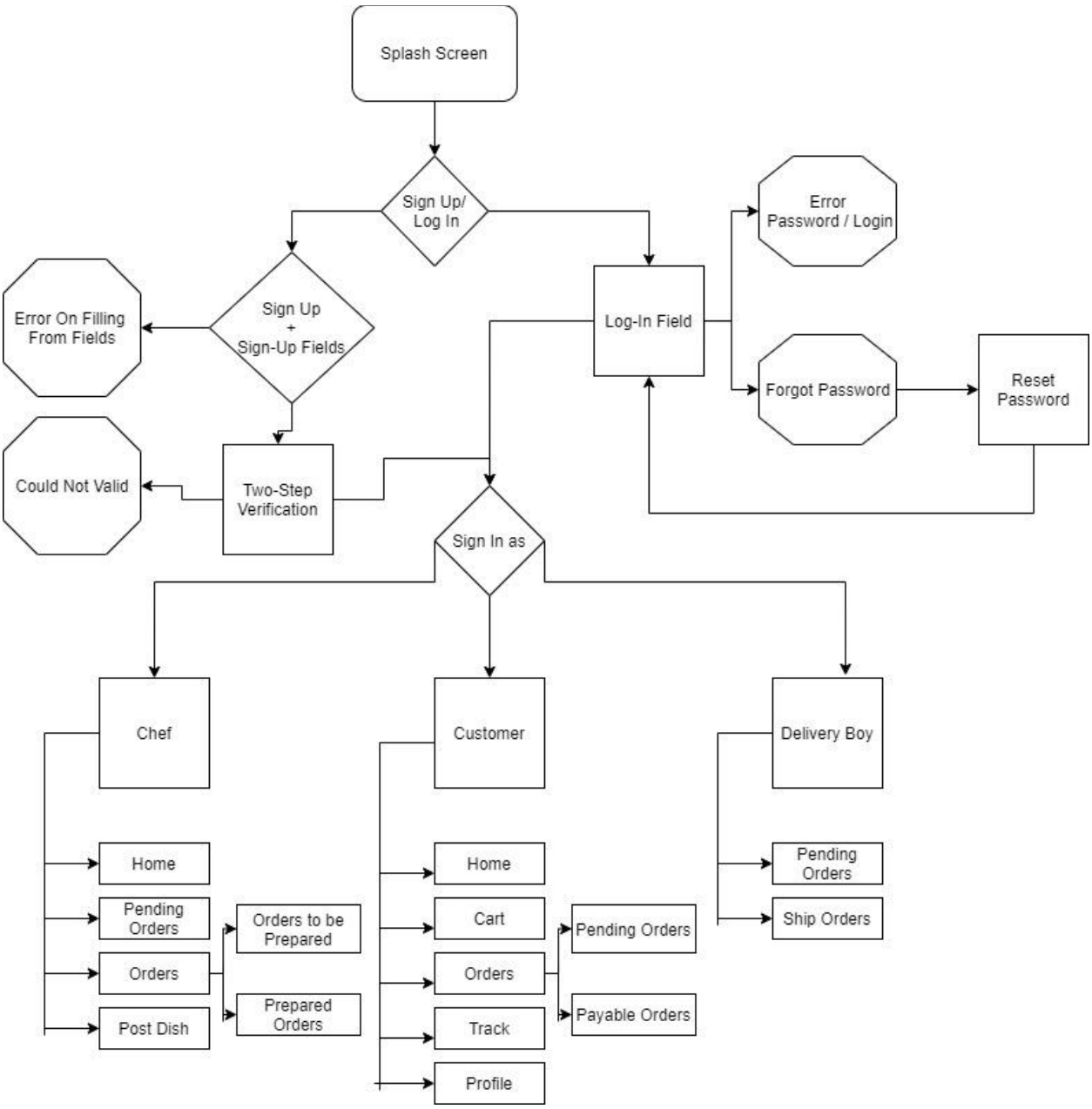
- ➔ Registration

- ➔ Orders and history
- ➔ Realtime Navigation
- ➔ Ship Order

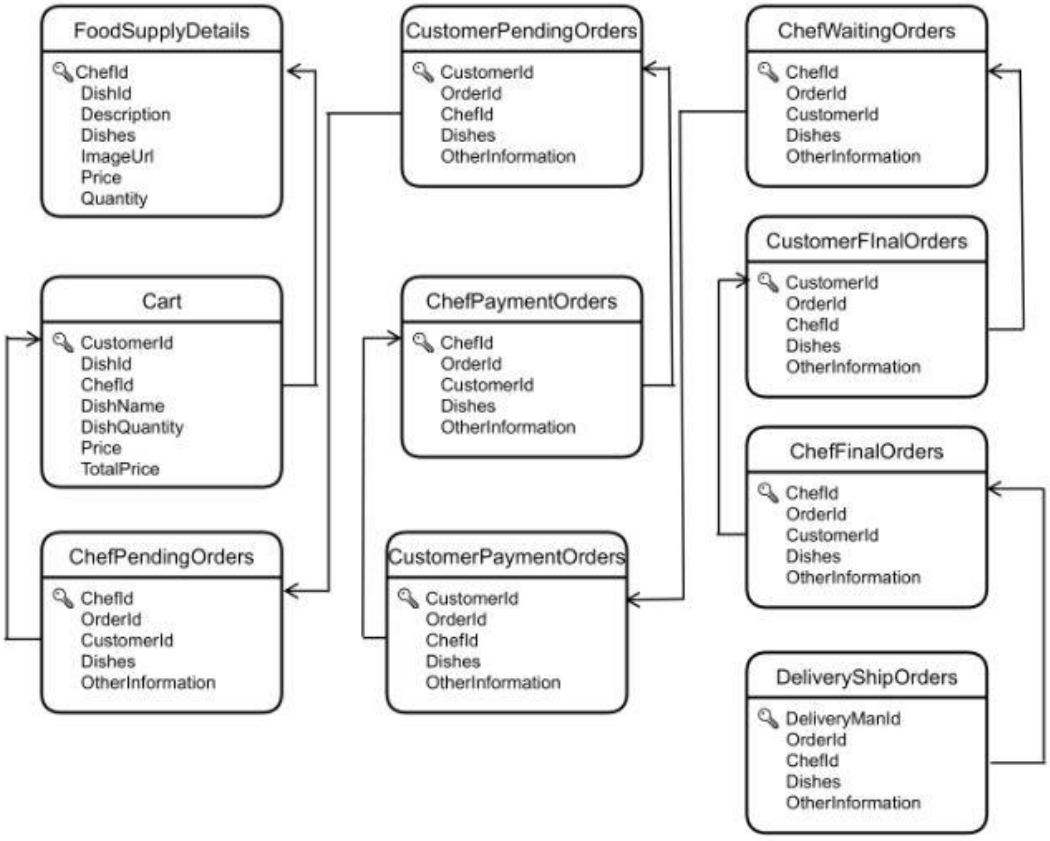
STEP 5: CHOOSE A TECHNOLOGICAL STACK

- **Payment methods:** Cash, Bkash, Rocket
- **Registrations:** Gmail SDK, Mobile Auth
- **Storages:** Google Cloud Storage
- **User location:** Google Maps, Google Places API, Core Location Framework
- **Finding direction:** Google Maps
- **Analytics:** Google Analytics, FireBase
- **Push notifications:** Firebase Cloud Messaging

Block Diagram:

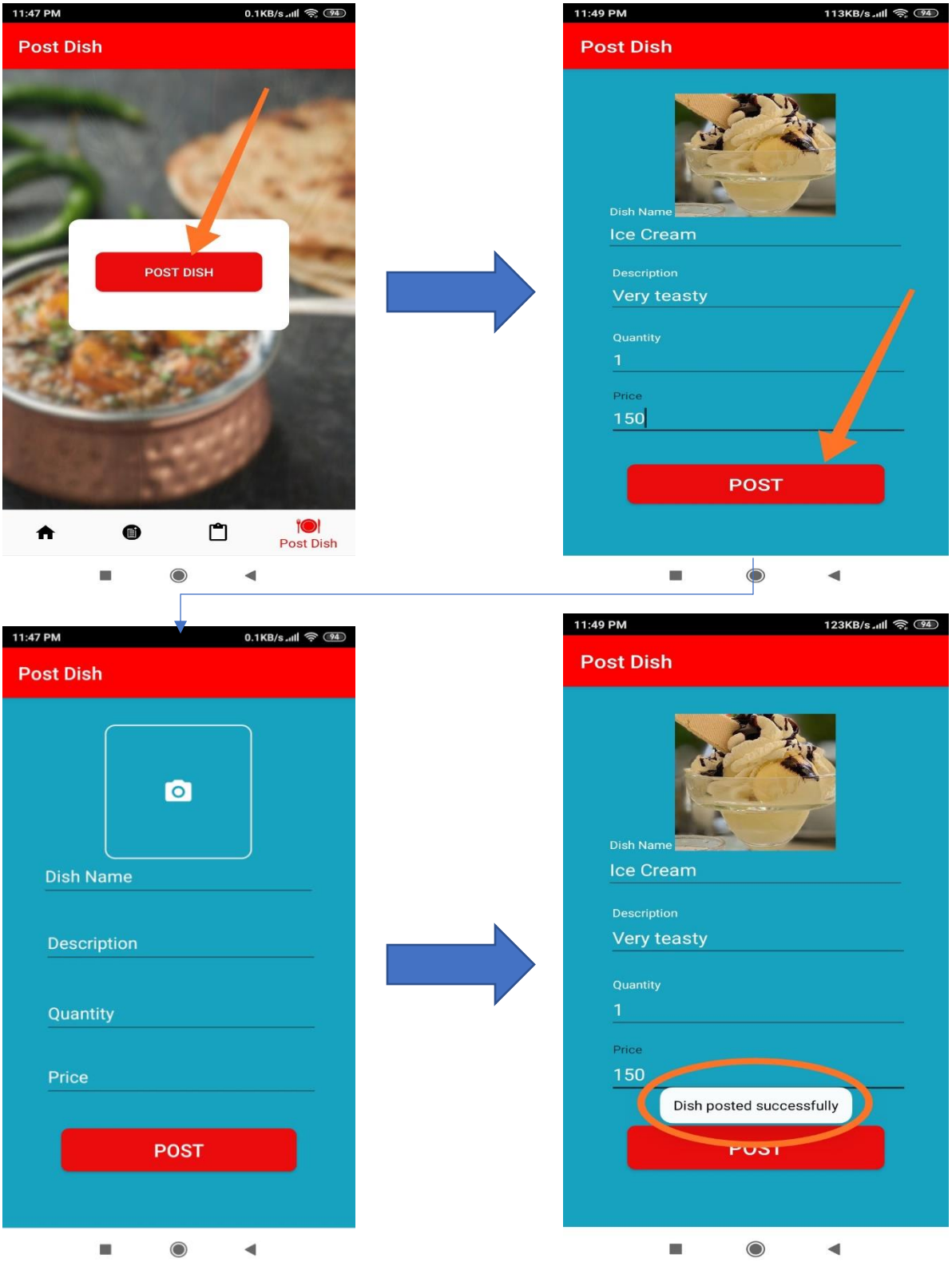


Schema Diagram:



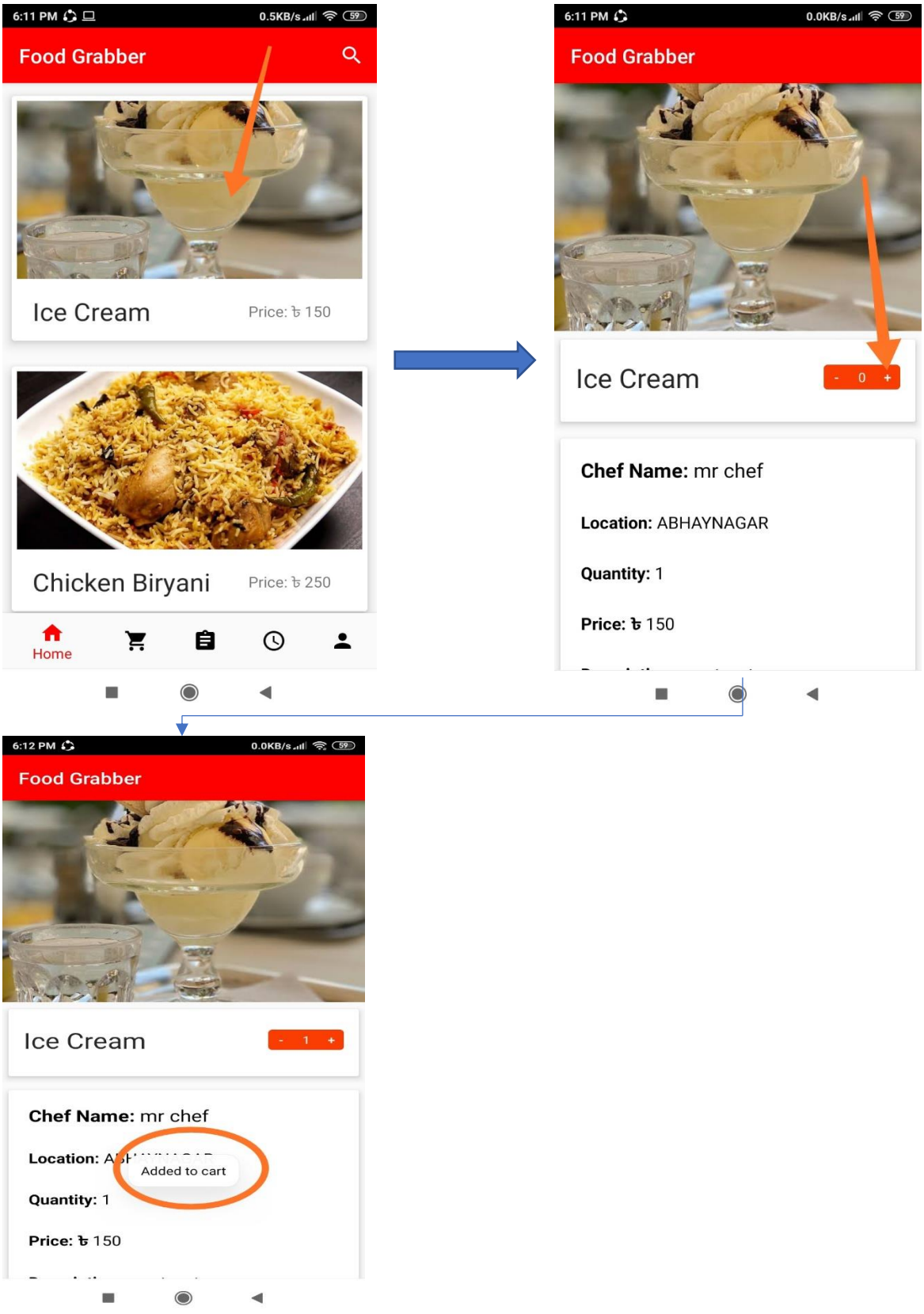
Detailed Visualization:

Step-1: Chef Post Dish



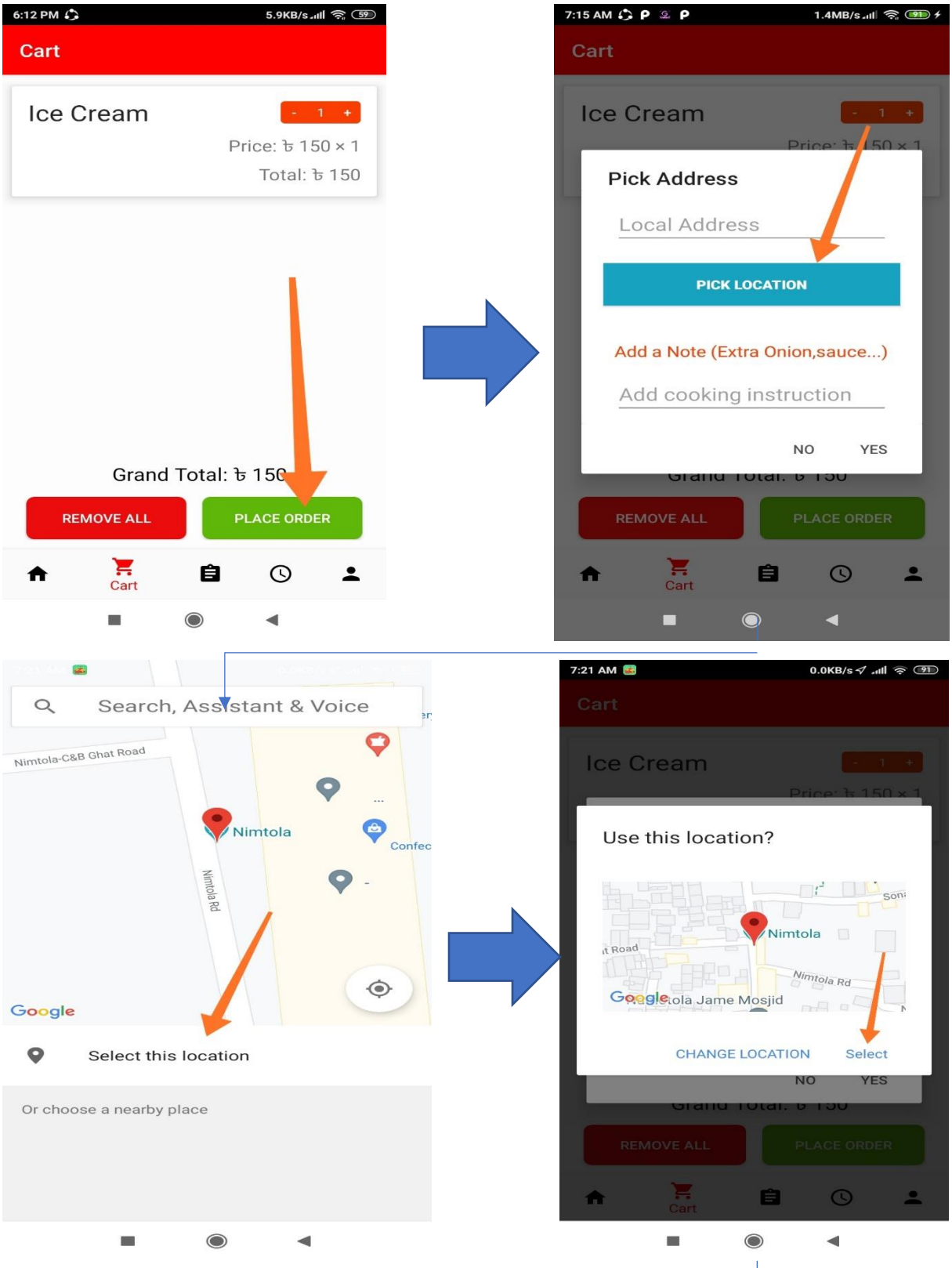
Firebase Condition After Chef Post Dish:

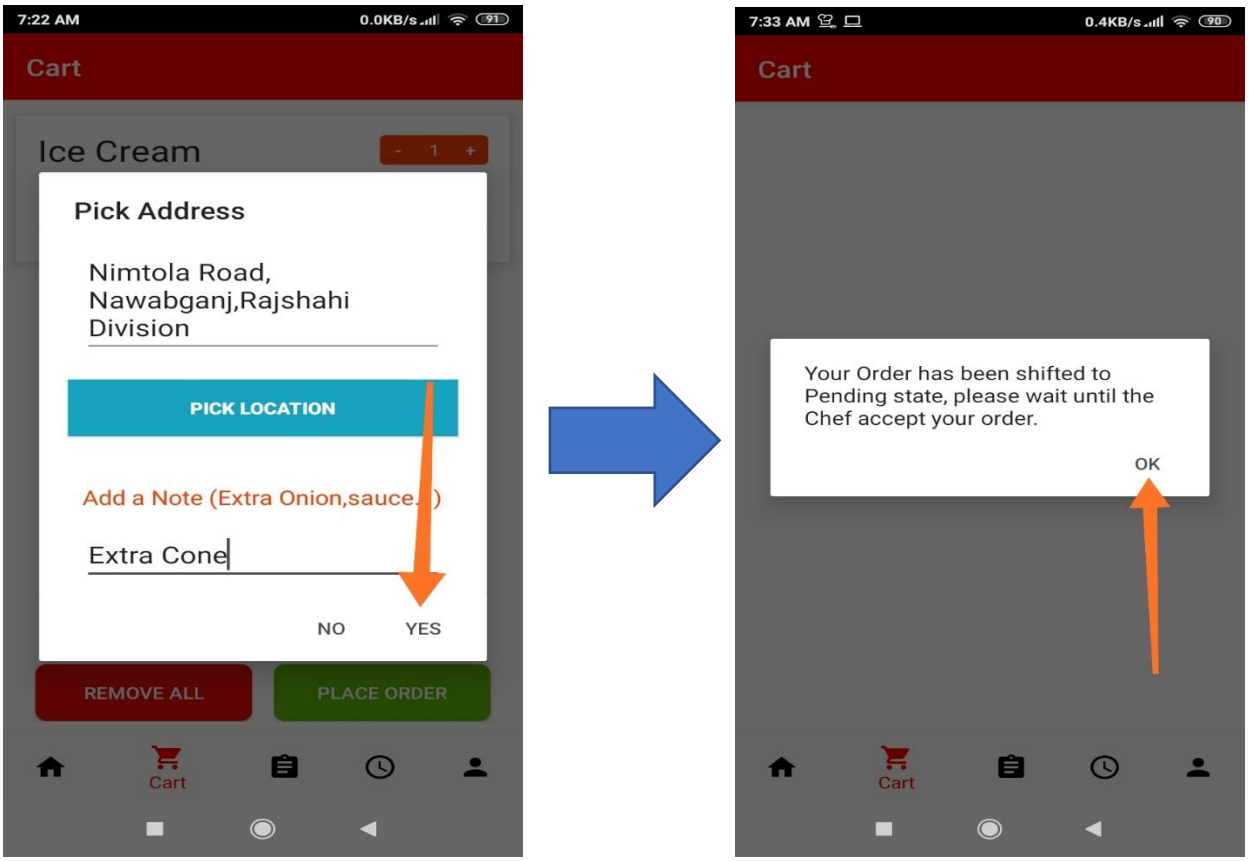
Step-2: Customer Added Dishes To Cart



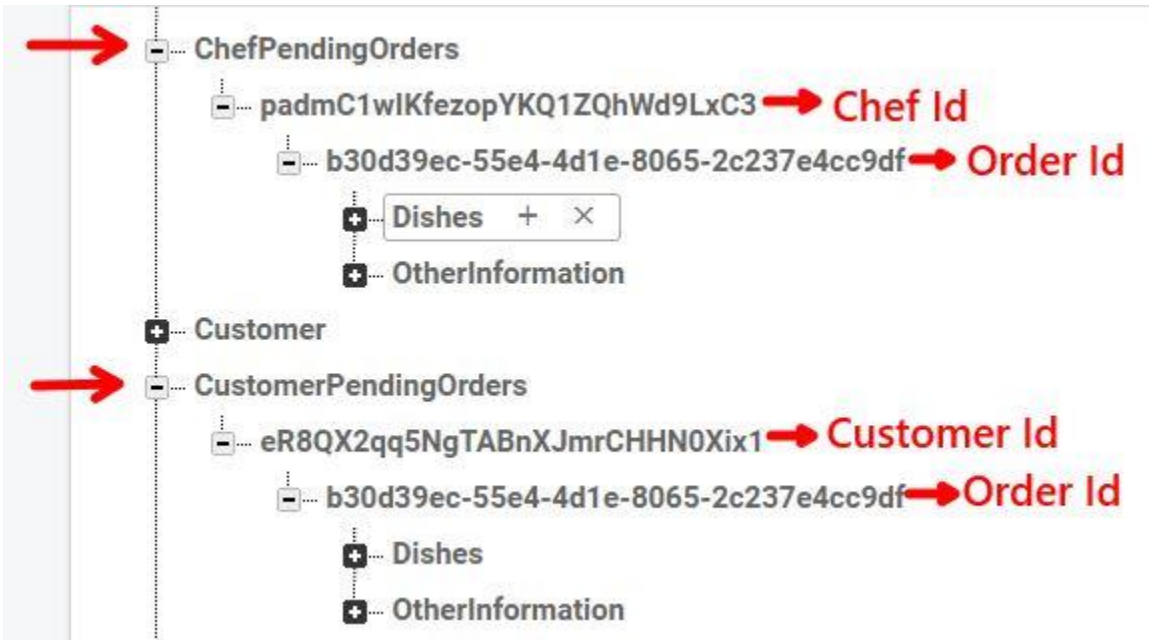
Firebase Condition After Customer Added Dish To Cart:

Step-3: Customer Placed Order

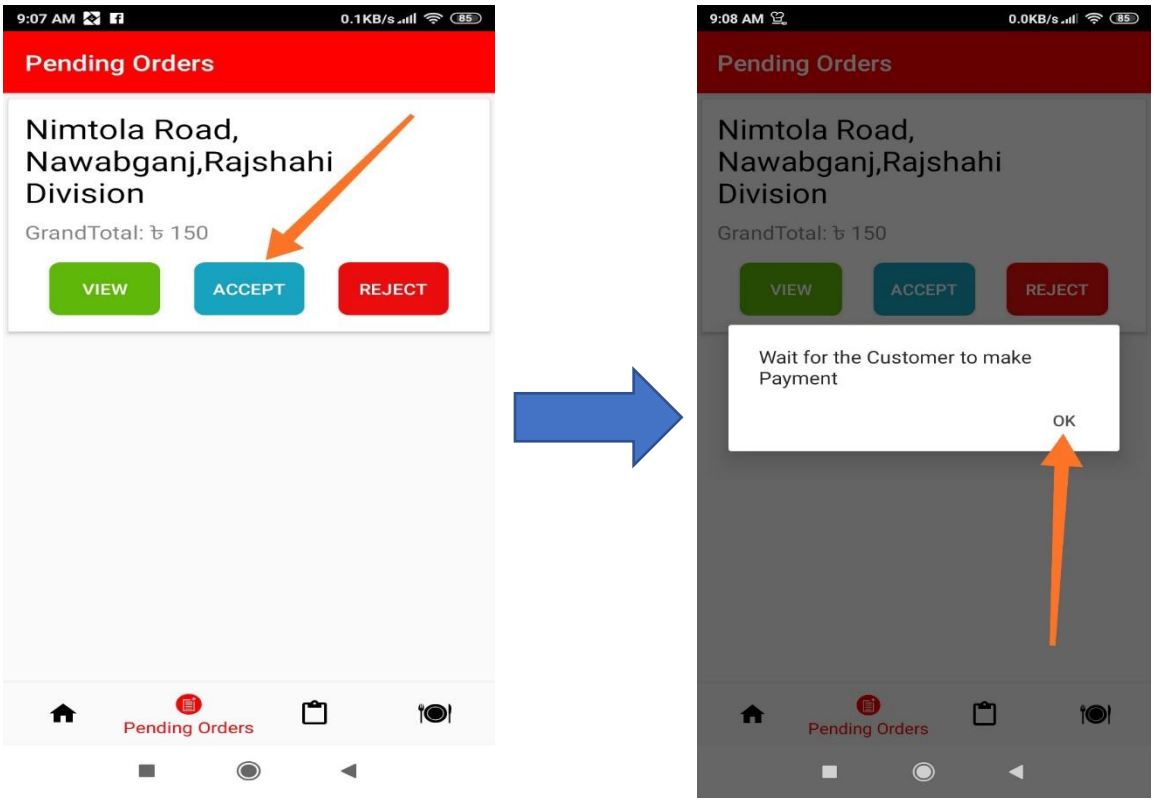




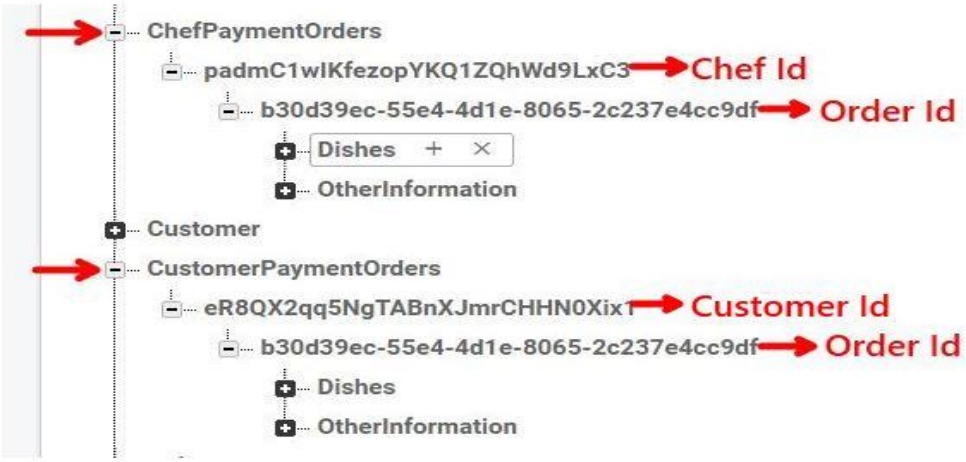
Firebase Condition After Customer Place Order:



Step-4: Chef Accept Order

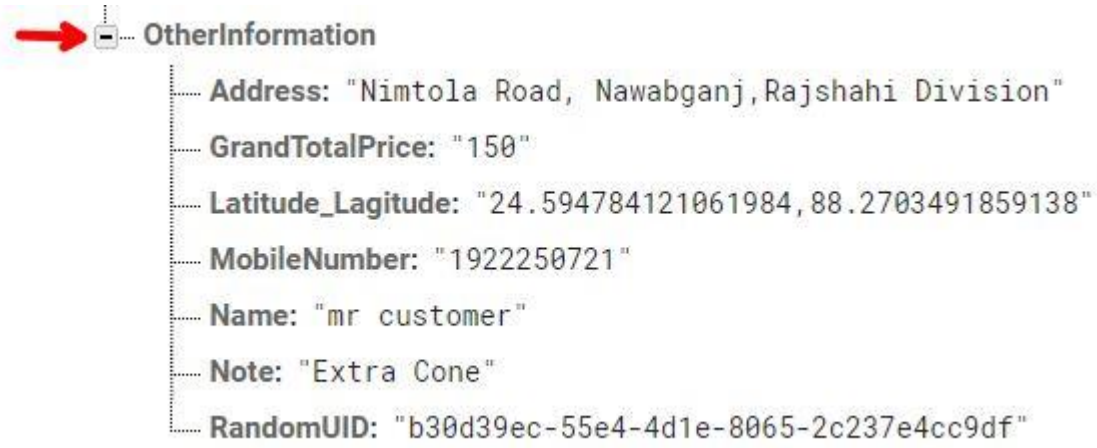


Firebase Condition After Chef Accept Order:

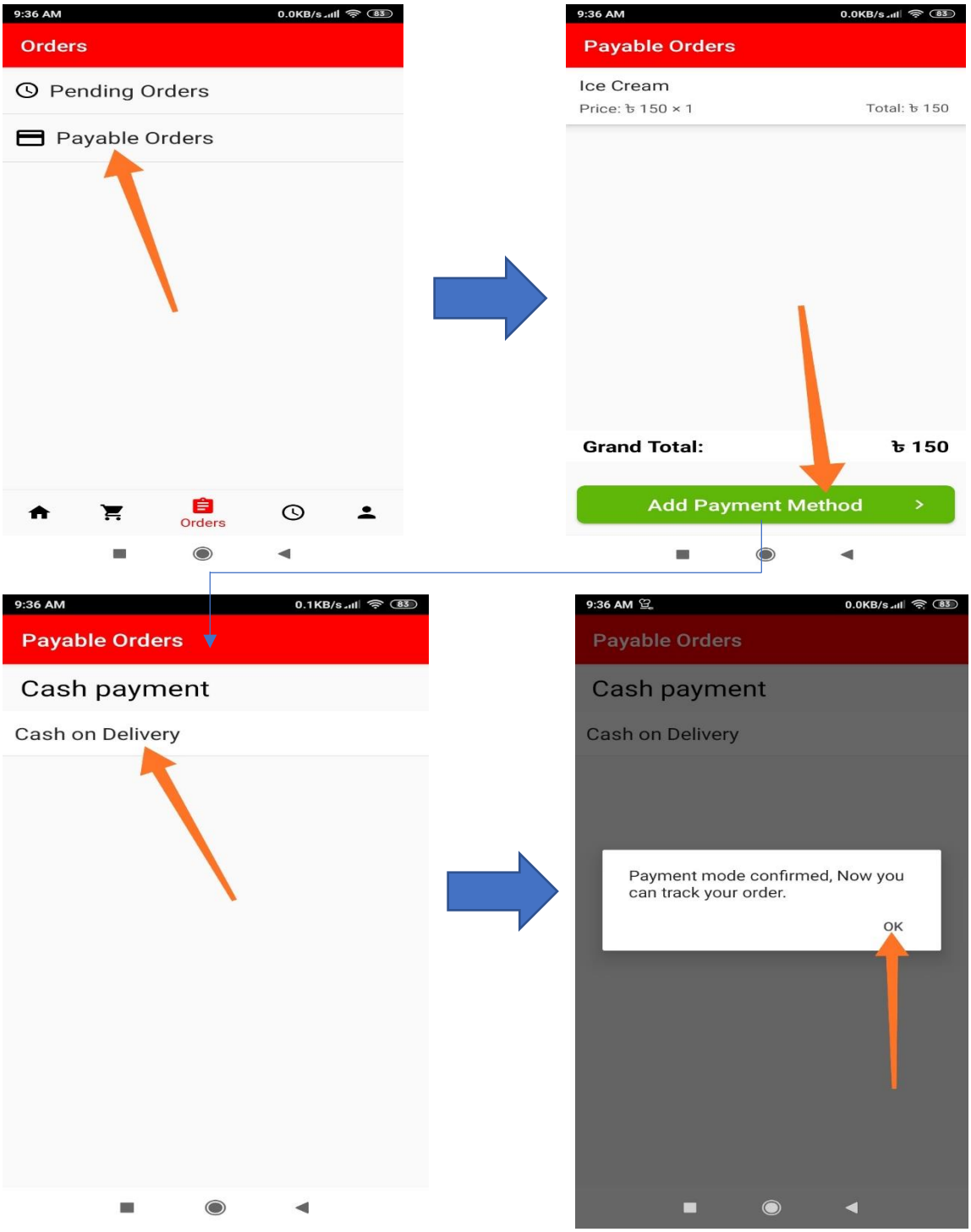


Inside Dishes:

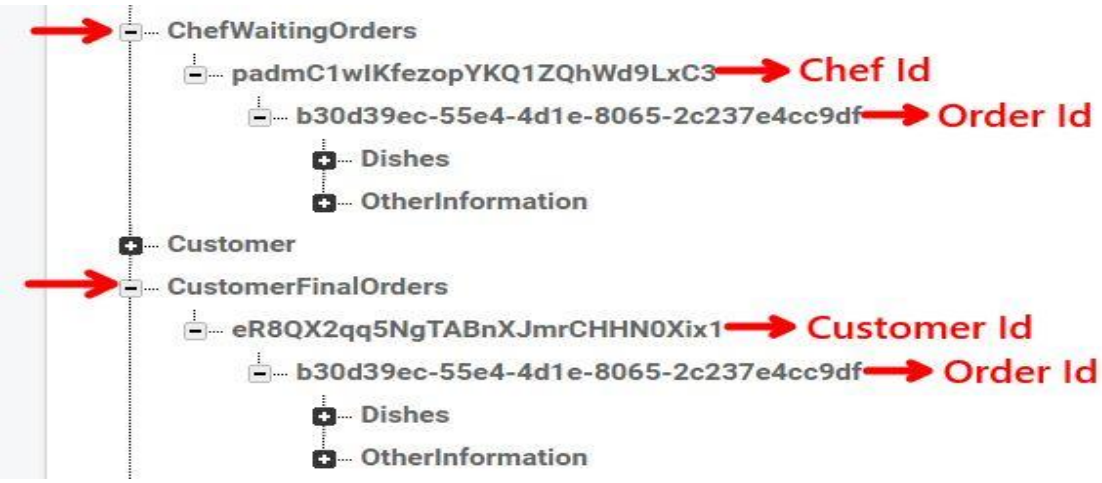
Inside Other Information:



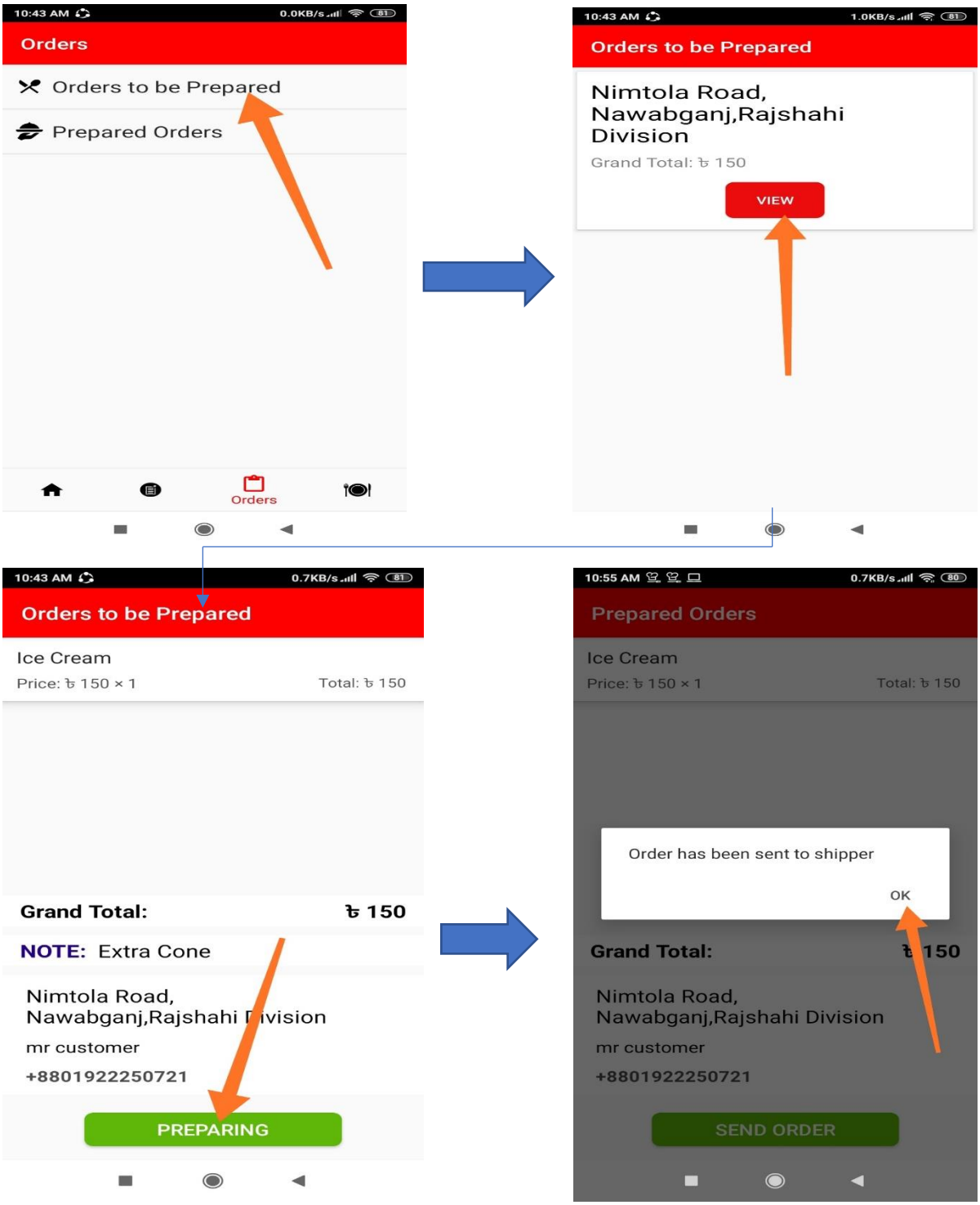
Step-5: Customer Confirm Payment



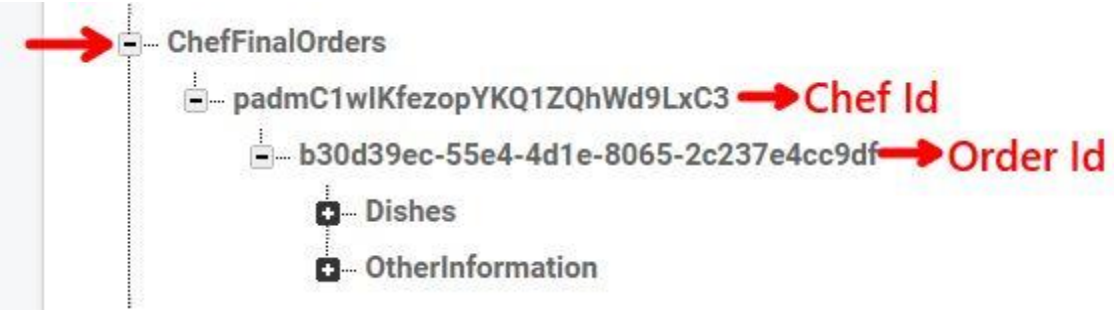
Firebase Condition After Customer Confirm Payment:



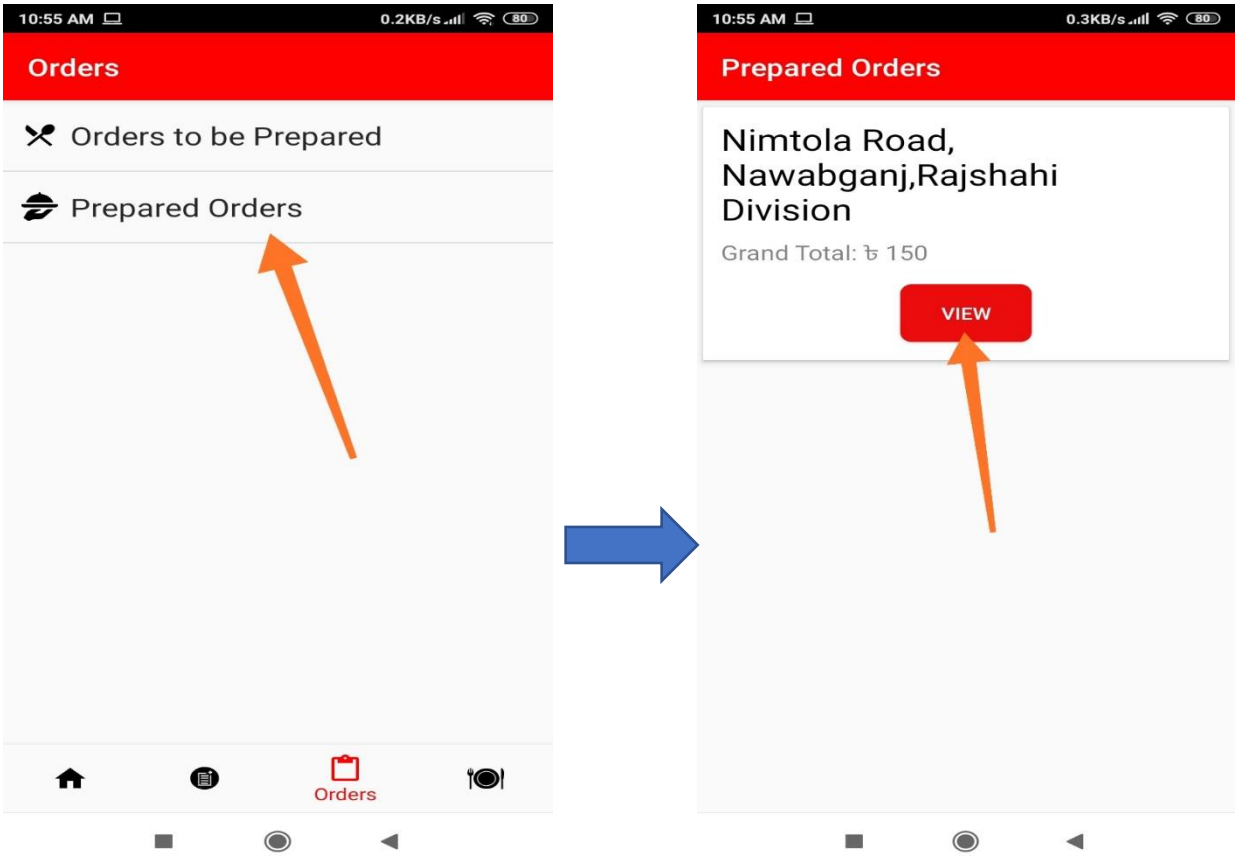
Step-6: Chef Preparing Order

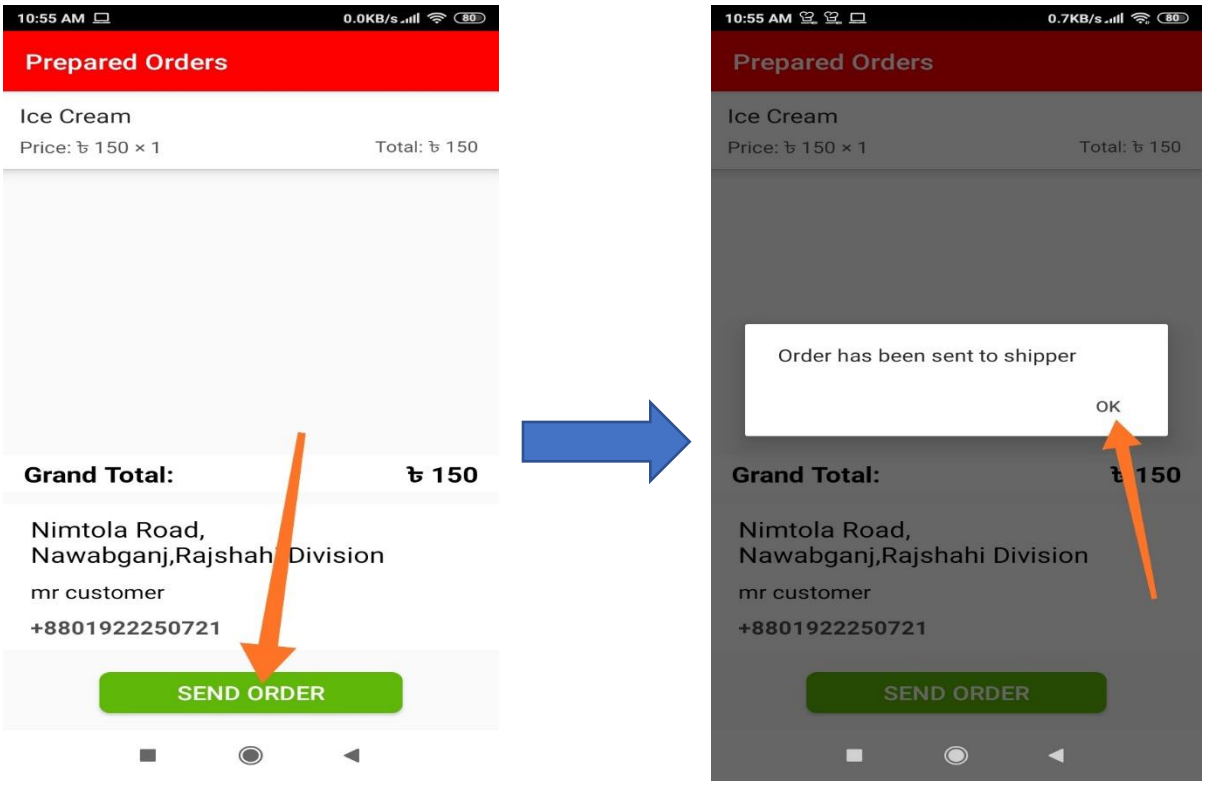


Firebase Condition After Chef Preparing Order:

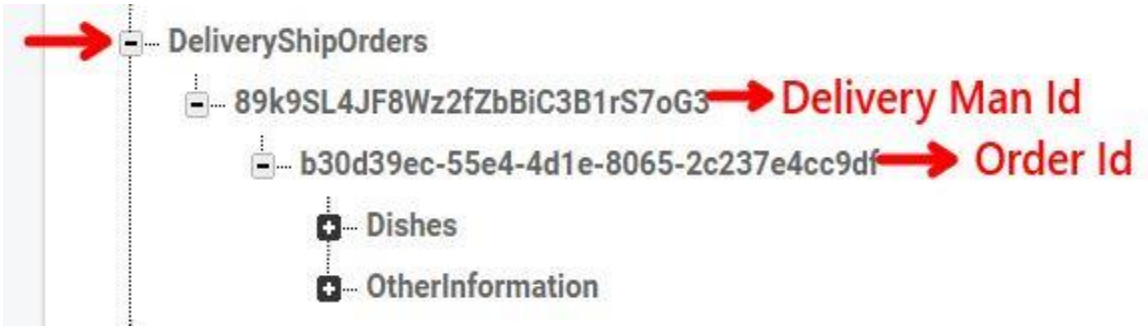


Step-7: Chef Send Order to Delivery Boy

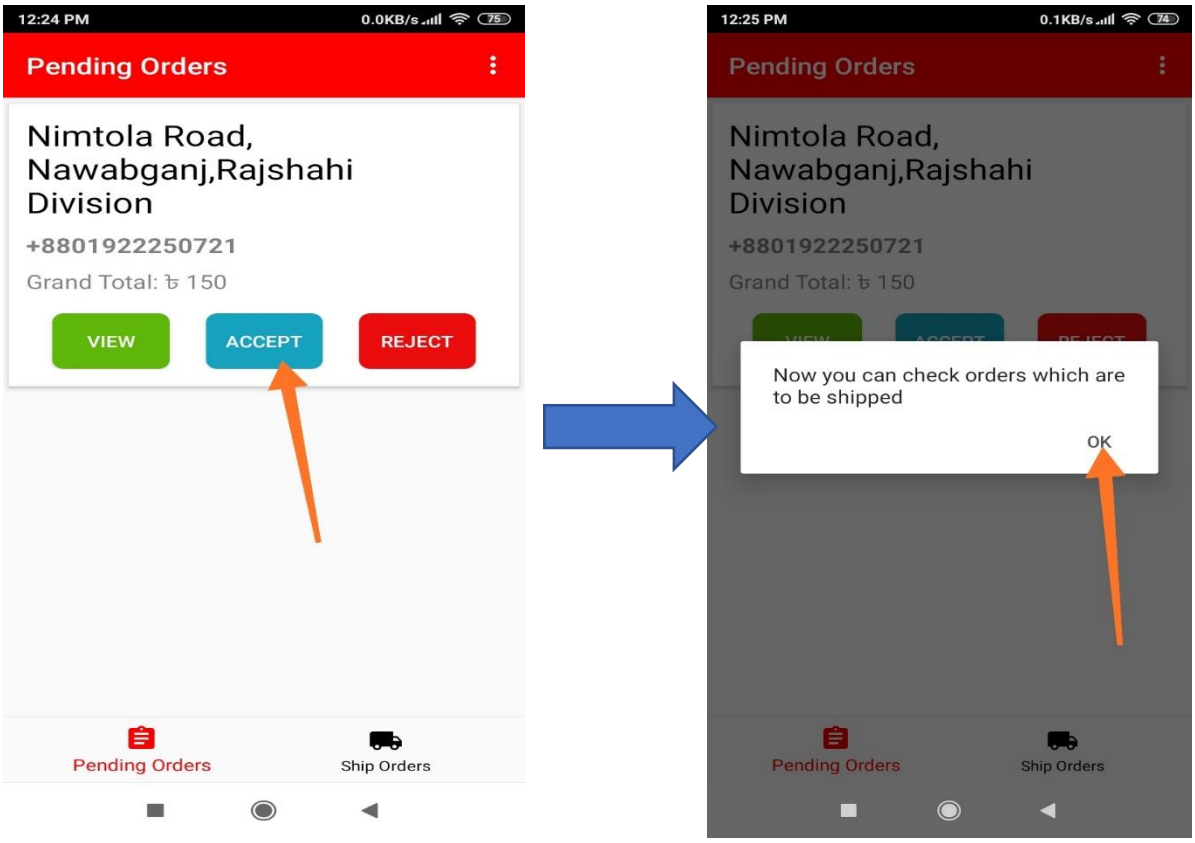




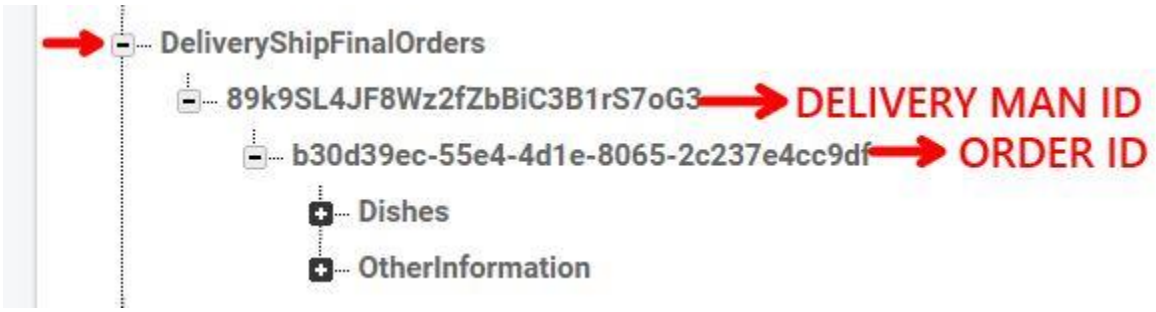
Firebase Condition After Chef Send Order to Delivery Boy:



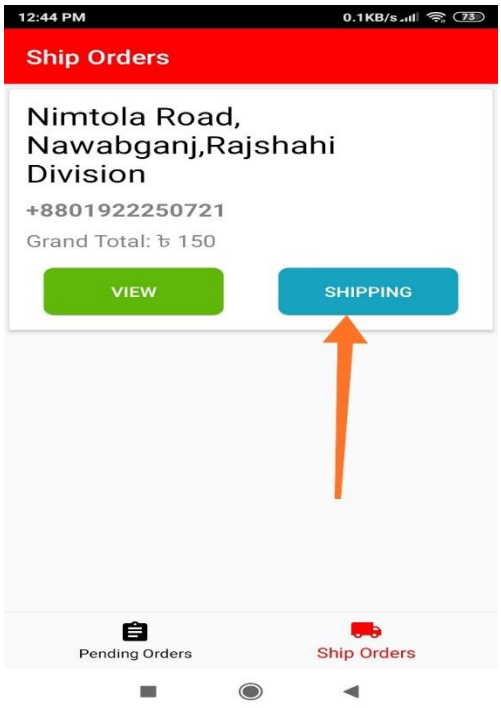
Step-8: Delivery Boy Accept the Order

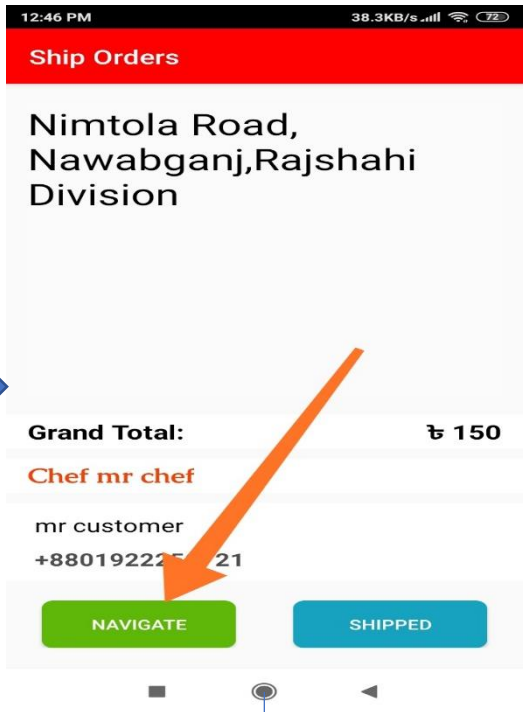


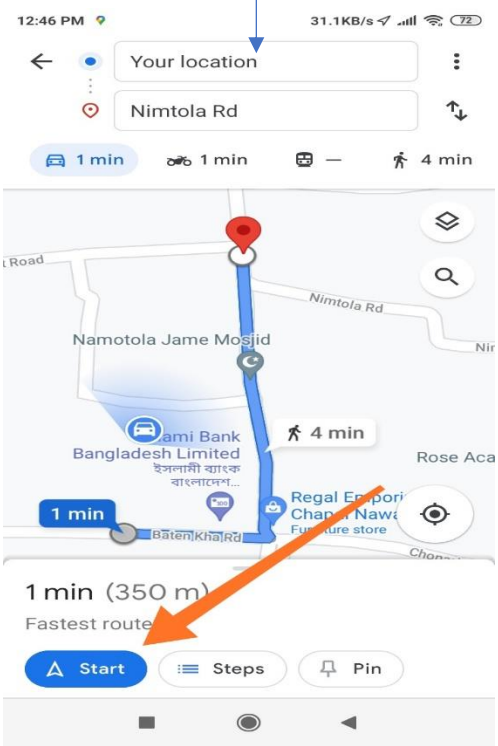
Firebase Condition After Delivery Boy Accept the Order:

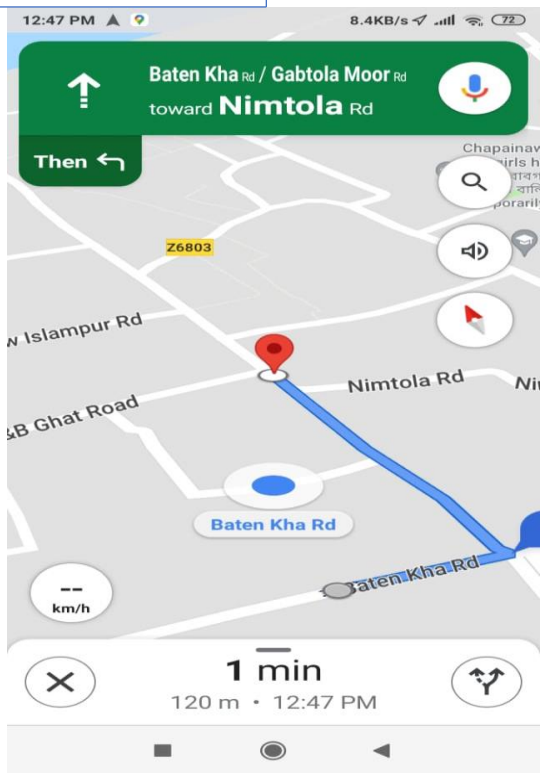


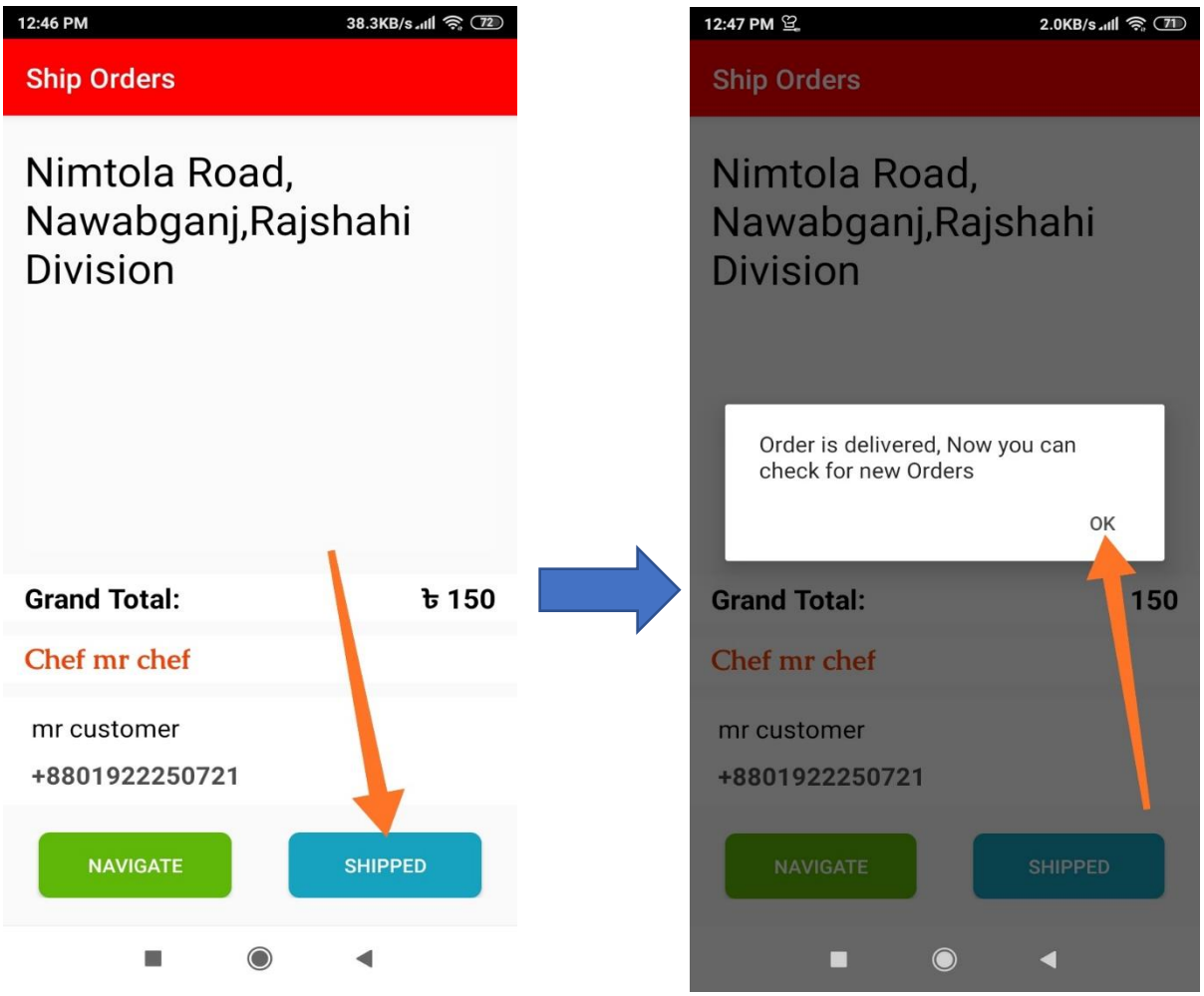
Step-9: Delivery Boy Ship the Order










12:46 PM
38.3KB/s
Ship Orders
Nimtola Road, Nawabganj,Rajshahi Division
Grand Total:
৳ 150
Chef mr chef
mr customer
+8801922250721
NAVIGATE
SHIPPED
12:47 PM
2.0KB/s
Ship Orders
Nimtola Road, Nawabganj,Rajshahi Division
Order is delivered, Now you can check for new Orders
OK
Grand Total:
150
Chef mr chef
mr customer
+8801922250721
NAVIGATE
SHIPPED

Target vs. Actual Accomplishments:

Topic Name	Target	Achieved
User Panel	✓	✓
Chef Panel	✓	✓
Delivery Panel	✓	✓
Payment Method	✓	✓
Place Picker	✓	✓
Navigation	✓	✓
Realtime Tracking	✓	✓
Order management	✓	✓
Push Notification	✓	✓
Phone Auth	✓	✓
Email Auth	✓	✓
Registration	✓	✓
Sign In	✓	✓
Food List	✓	✓
Chef List	✓	✓

Risks and Issues:

Customer Privacy & Data :

Back in the not-so-olden days, customers simply called up your restaurant to order. Their order was then delivered by a driver employed by the restaurant. Maybe they provided a credit card over the phone. Maybe they paid in cash at the door. But times have changed. Now customers order on their cellphones and through food delivery apps like Food Grabber. Sensitive data, including credit card numbers, is transmitted and frequently stored, often across multiple networks and systems. By using latest technology the Food Grabber App Protect the privacy and data of Customer.

Food Safety:

Food safety should be a concern for every chef, whether they deliver or not. But it becomes especially important for delivery because of the additional risks. First and foremost, chef should be concerned about maintaining the correct hot and cold holding temperatures of the food they are delivering. How long has that potato salad sat out? How long will it sit in a hot car? By using well packed delivery service Food Grabber insure the Safety of Food.

Tampering:

Food Grabber insure not of tampering of food by using sealed packaging. Take out bags can be sealed with an adhesive that will tear the bag if removed. Carryout containers can have plastic seals that have to be broken to remove the food and cannot be replaced or resealed once broken. So Customer don't worry about Food Tempering they just enjoy their food.

Delivery Driver Issues:

- ➔ Automobiles Come with Risks
- ➔ Delivery drivers make attractive targets for thieves
- ➔ Slip and fall accidents are all too common.
- ➔ Wage & Labor Issues

Discussion & Conclusion:

Food delivery is not going away. And most indications show that it is only going to grow as an important segment of the restaurant industry. That is why it is so important for restaurant business owners to fully understand the risks involved with food delivery. Only by understanding the food delivery risks can you take proactive steps to avoid problems down the road. But getting started with food delivery for restaurant isn't just as simple as taking orders and driving them to people's houses. Many of the choices we need to make come with risks that need to be mitigated. How we address these risks can make a huge difference on how profitable your takeout and delivery services will be.

References:

https://developer.android.com/docs

https://material.io/

https://www.youtube.com/anisulislamrubel

https://www.youtube.com/

https://stackoverflow.com/