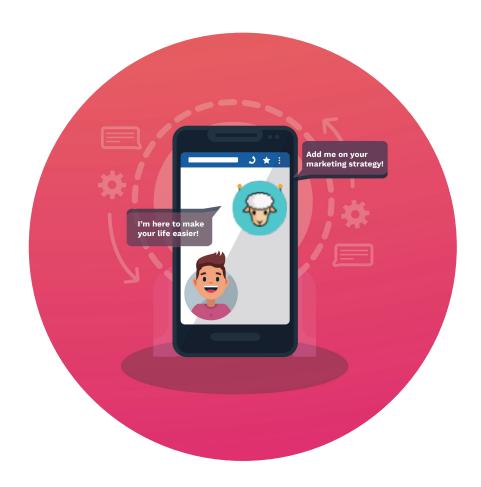
## Industry Challenge

### Chatbots

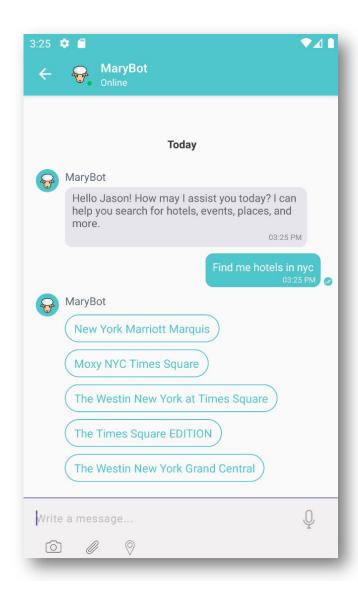
- 1.4 billion users
- The Future of Engagement
- Capture attention
- Initiate conversations
- Personalize experience
- Voice enabled for accessibility



# **Our Solution**

### Introducing MaryBot

- Mobile chatbot app "MaryBot"
- Text and voice chat
- Greater accessibility of Marriott's services
- Vacation planning made easier
- Possible integration into Marriott's existing mobile app





### Trips



命

The Royal at Atlantis, Paradise Island

0

### No Trips Saved

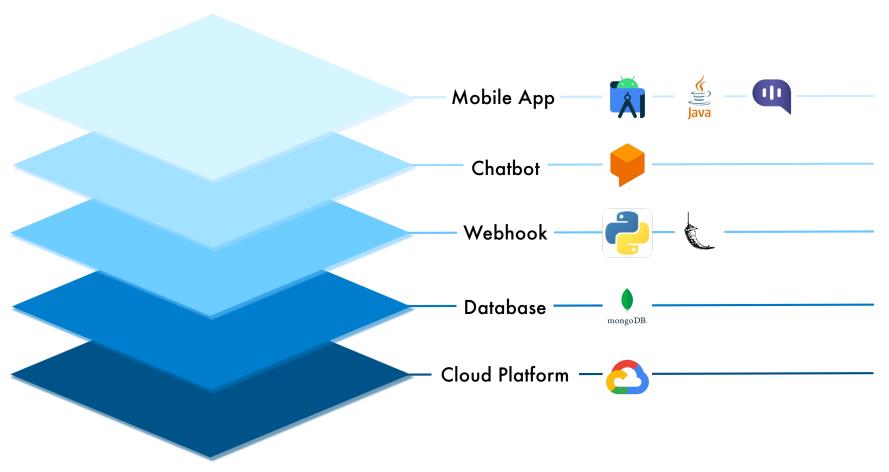
Let us help you plan your next trip. Visit our new chatbot.



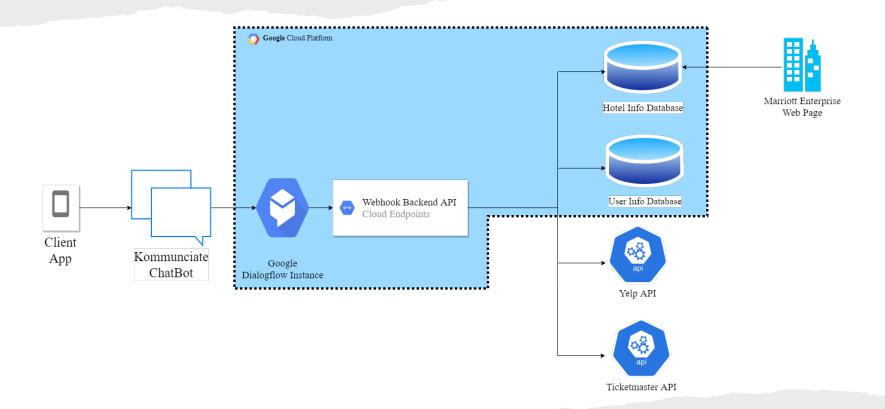
Adventure Begins Here



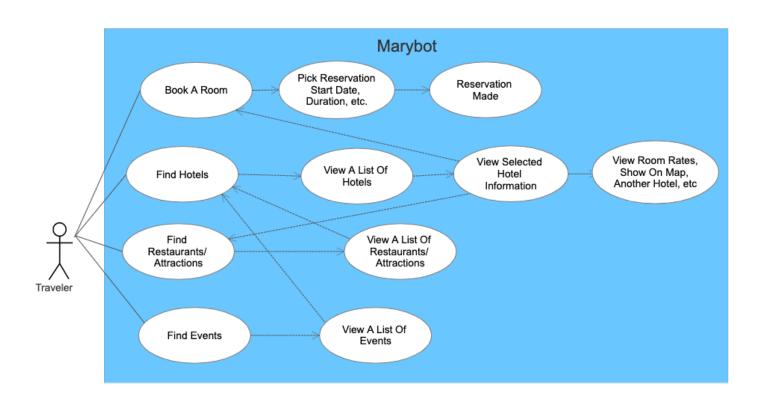
### **Tech Stack**

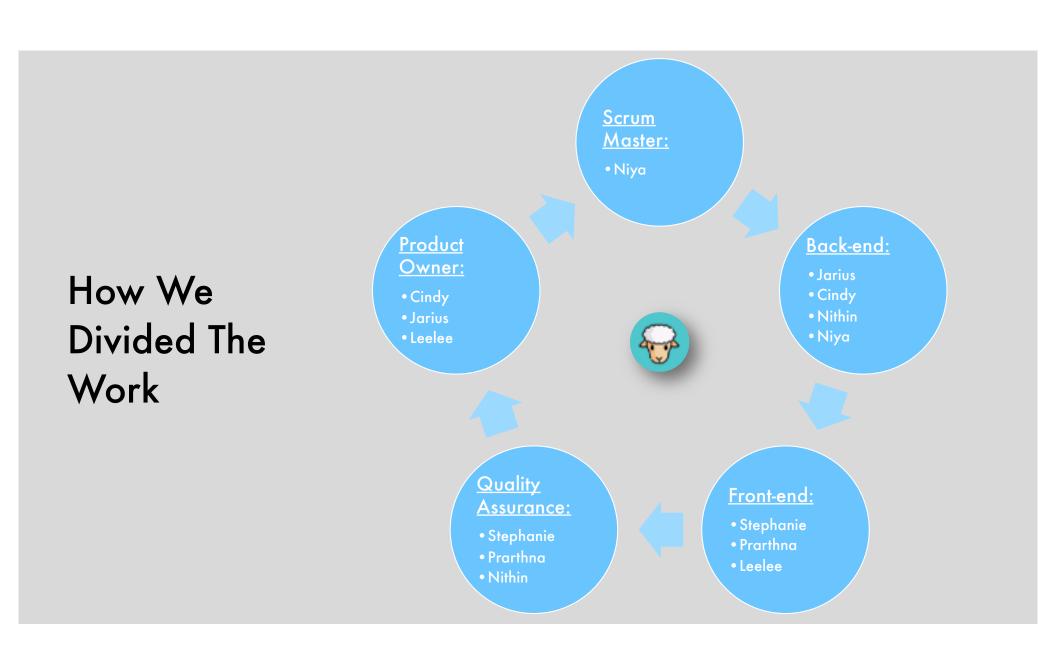


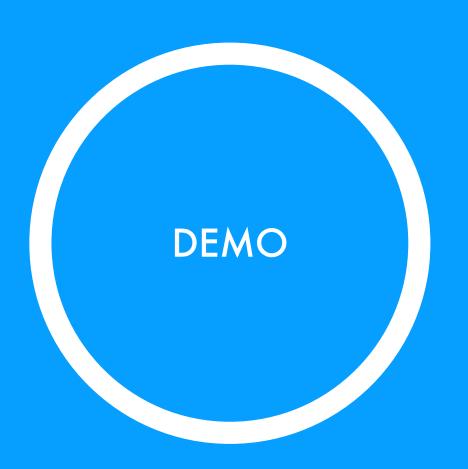
### Our Architecture



### App Use Cases







### Persona #1

### Jason G.

- 22 years old
- College Graduate
- Planning a graduation trip to Miami
- No MaryBot account
  - Friend recommended using MaryBot
- Unemployed and needs to save money





### Persona #2

### Andrea M.

- 34 years old
- Frequently travels for work
- Planning a trip to Los Angeles to meet with a client
- MaryBot account already created
- Previously made a reservation, but she needs to cancel







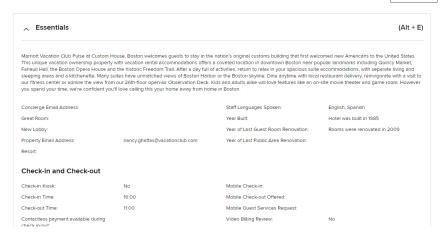
# **Technical Details**

### **Hotel Facts Sheet**

### Marriott Vacation Club Pulse at Custom House, Boston

3 McKinley Square Boston, MA 02109 USA

EXPAND ALL



```
    Transportation: Object
    Airport Name:: "Boston Logan International Airport"
    Airport code:: "BOS"
    Distance to Hotel:: "3 mi E"
    Driving Directions:: "Boston Logan International AirportHead southeast23 ftKeep left, follow..."
    Airport Shuttle:: "N/A"
    Airport Shuttle Phone:: "N/A"
    Subway Fee:: "Subway service, fee: 2.75 USD (one way)"
    Taxi Fare (Estimated):: "Estimated taxi fare: 30 USD (one way)"
```

## Marriott Hotel Database

\_id: ObjectId("60ef238f0540d9227d119b43") Hotel Name:: "Marriott Vacation Club Pulse at Custom House, Boston" Hotel Code:: "bosch" Hotel Address:: "3 McKinley Square Boston, MA 02109 USA" Latitude: "42.3590801" Longitude: "-71.0536495" > Essentials: Object > Accessibility: Object > Alerts: Object > Business Services: Object > Dining & Entertainment: Object > Direct Billing: Object > Guest Room Amenities: Object > Meeting Facilities: Object > Parking: Object > Recreation: Object > Services & Amenities: Object > Staff: Object > Transportation: Object > Rates:: Object

### User Profiles & User Reviews Database

```
_id: ObjectId("6101aa120af9d8babcfc2e45")
 user-id-field: "6101aa11a0c894c5436a1c52"
 email: "andream@gmail.com"
 firstName: "Andrea"
 lastName: "M"
 birthDate: 16
 birthMonth: 4
 birthYear: 1987
v bookings: Array
  ∨0:Object
      hotelCode: "boslw"
      hotelName: "Boston Marriott Long Wharf"
      startDate: "2021-09-05T12:00:00-04:00"
      numberOfNights: 4
      price: 2076
  ∨1: Object
      hotelCode: "laxbw"
      hotelName: "The Westin Bonaventure Hotel & Suites, Los Angeles"
      startDate: "2021-08-21T12:00:00-04:00"
      numberOfNights: 3
      price: 1137
  v 2: Object
      hotelCode: "nycsw"
      hotelName: "The Westin New York at Times Square"
      startDate: "2021-08-15T12:00:00-04:00"
      numberOfNights: 5
      price: 4415
```

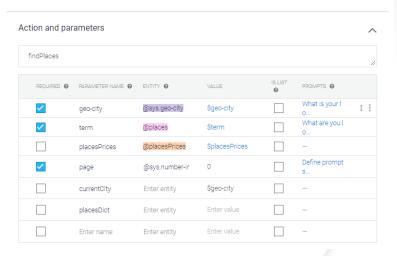
```
_id: ObjectId("6101bd741d6921559d934004")
user-id-field: "6101aa11a0c894c5436a1c52"
rating: 5
comments: "helpful"
date: "07/28/21"

_id: ObjectId("6102cb87f6c67cdd785fc203")
user-id-field: "6102c5543a0a9918ba695013"
rating: 5
comments: "Pretty good"
date: "07/29/21"

_id: ObjectId("6102f2503075d7c65317cbc6")
user-id-field: "6102f0923a0a9918ba8e8b6a"
rating: 5
comments: "Pretty good"
date: "07/29/21"
```

## How We Used the Yelp API

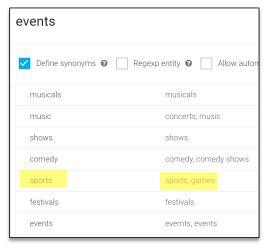
• findPlaces ① save



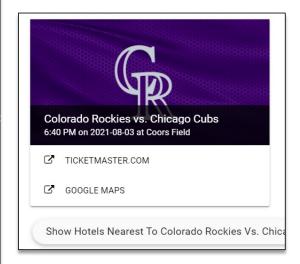
```
"transactions": [
                                                                        "pickup",
"name": "Mike & Patty's - Boston",
"image_url": "https://s3-media1.fl.yelpcdn.com/bphoto/j_Ut4i4j2
                                                                      "price": "$",
"is closed": false.
"url": "https://www.yelp.com/biz/mike-and-pattys-boston-boston:
                                                                      "location": {
                                                                        "address1": "12 Church St",
"review_count": 1806,
                                                                        "address2": "",
"categories": [
                                                                        "address3": "",
   "alias": "sandwiches".
                                                                        "city": "Boston",
                                                                        "zip_code": "02116",
   "title": "Sandwiches"
                                                                        "country": "US",
                                                                        "state": "MA",
                                                                        "display address": [
   "title": "Breakfast & Brunch"
                                                                          "12 Church St",
                                                                          "Boston, MA 02116"
"rating": 4.5,
 "latitude": 42.348561,
 "longitude": -71.067928
                                                                      "phone": "+16174233447",
                                                                      "display_phone": "(617) 423-3447",
                                                                      "distance": 283.9483626062025
```

### How We Used the Ticketmaster API

USER SAYS sports in denver







### Performance Improvements via Caching



