### Mobile App

*Mobile app must have Bangla support*

1. Sign in
2. Duty list
   1. Date time
   2. Latest on top
   3. Highlight current duty
3. Duty details
   1. Address
   2. Map, pin duty location and current location
   3. Contact person (optional)
   4. Show start/end button
4. Start duty
   1. Show start button on time
   2. Hide start button after start, show end button
   3. Record location, time
   4. Late start
      1. Confirm with reason
   5. Track location, time every 5 minutes
5. End duty
   1. Record location, time
   2. End early
      1. Confirm with reason
6. Notification
   1. New duty
   2. Upcoming duty
      1. Before 30 minutes
   3. Start duty
      1. Notify to start duty on start time
   4. Duty end
      1. Notify before 15 minutes
      2. Notify to end duty on end time
   5. Late duty start
      1. Notify if did not start duty on time

REST API for Mobile App

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| URL | Method | Request | Request Header | Response Code | Response |
| /sign-in | POST | {  username,  password  } |  | 200 | {  token: jwt-token  User-details: object  } |
| /sign-out | POST |  | token | 200 |  |
| /duties | GET |  | token | 200 | duty-list: Array |
| /duties/{id} | GET |  | token | 200 | duty-details: object |
| /duties/{id}/start | POST | {  location-lat:number,  location-lang:number,  start-time: timestamp,  comment: text  } | token | 200 |  |
| /duties/{id}/end | POST | {  location-lat:number,  location-lang:number,  endtime: timestamp,  comment: text  } | token | 200 |  |
| /duties/{id}/location | POST | {  lat: number,  lang: number  } | token | 200 |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

1. Duty log management
   1. Timestamp, location, action, guard id, duty id

[8:22 AM, 9/22/2021] +880 1713-185050: Duty log is kind of audit log. It will track duty start end time and location nformation

[8:23 AM, 9/22/2021] +880 1713-185050: And keep record of the location in 5 minutes interval

[8:25 AM, 9/22/2021] +880 1713-185050: So that we can track when the duty was started from which location, when it was ended and at which location and the location from start to end.

[8:25 AM, 9/22/2021] +880 1713-185050: Got it?

1. Notification management
   1. Send push notification in mobile about duty
2. Homepage
   1. Counts (medium priority)
      1. Active duties
      2. Upcoming duties
      3. Total on duty Employees
      4. Total performed duties (Year, Month)
   2. Graph (low priority)
      1. Yearly indicator (number of duties (y axis), months (x-axis)
   3. Active duty list (high priority, we have to do it)
      1. Employee photo, name, contact, client name, duty start time
      2. Click to show details
         1. Employee photo thumbnail, name, phone
         2. Duty location address
         3. Map, pin duty location, current location (if possible)
         4. Client details
3. Reports
   1. Report Criterias:
      1. By Date range
         1. This week
         2. This month
         3. This year
         4. Select date range
      2. By Client
      3. By Employee
      4. By Status
   2. Duty details
      1. Client, duty location, duty date, duty start, duty end, Duty status, duty performed by(s)

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My Task-

* + - 1. Exception Handling
      2. At same time multiple duty have same employee
      3. Reduce code duplication from duty service class
      4. Java.util.Date vs jave.sql.Date



