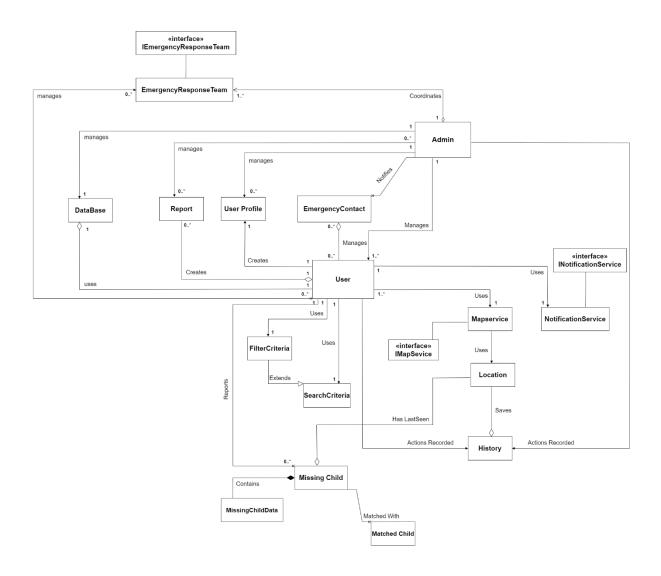


# CLASS DIAGRAM:-



Admin	DataBase
- adminId: int - username: string - password: string - email: string	- users: List <user> - missingChildren: List<missingchild> - matchedChildren: List<matchedchild></matchedchild></missingchild></user>
+ createAdminAccount(username: string, password: string, email: string): Admin + login(username: string, password: string): boolean + manageUserProfile(user: User) + generateReportsAndAnalytics(): Report + performDatBackupAndRecovery() + manageUsers(users: List <user>) + manageChildData(children: List<nissingchild>) + assignToEmergencyResponseTeam(team: EmergencyResponseTeam) + viewUserProfile(user: User): UserProfile - isImplementedBy &gt; Admin : implements</nissingchild></user>	+ addUser(user: User) + addMissingChild(child: MissingChild) + searchMissingChildren(criteria: FilterCriteria): List <missingchild> + updateMissingChildData(child: MissingChild) + storeUserData(user: User) + storeMissingChildData(child: MissingChild) + storeMatchedChildData(matchedChild: MatchedChild) + storeReport(report: Report) - isImplementedBy &gt; Database : implements</missingchild>
User	
- userida: int - username: string - password: string - email: string - phone: string	EmergencyResponseTeam
- profileData: string  + createUserAccount(username: string, password: string, email: string): User + login(username: string, password: string, email: string, phone: string, profileData: string) + updateProfile(username: string, password: string, email: string, phone: string, profileData: string) + submitMissingChildReport(childData: MissingChildData): MissingChild> + receiveRealTimeNotifications(): List <notification> + searchMissingChildren(criteria: FilterCriteria): List<missingchild> + manageEmergencyContacts(contacts: List<emergencycontact>) + generateReportsAndAnalytics(): Report - rateAndReviewChildSighting(sighting: MatchedChild) + viewProfile(): UserProfile + logAction(action: string, timestamp: date, user: User) + notifyEmergencyContacts(emergencyContacts: List<emergencycontact>) + assignToEmergencyResponseTeam(team: EmergencyResponseTeam) - isImplementedBy &gt; User: implements</emergencycontact></emergencycontact></missingchild></notification>	- teamID: int - teamName: string - members: User[]
	+ assignTeamMembers (members: User[]): void + respondToEmergency(): void
FilterCriteria	
- location: string - age: int	History
- gender: string - date: date - status: string	- historyID: int - description: string - date: date
+ setFilters(location: string, age: int, gender: string, date: date, status: string) + getFilters(): FilterCriteria	+ logAction(action: string, timestamp: date, user: User)
< <interface>&gt; IEmergencyResponseTeam</interface>	<> IMapService
+ assignTeamMembers(members: List <user>) + respondToEmergency() - isImplementedBy &gt; EmergencyResponseTeam : implements</user>	+ displayMap(location: Location) - isImplementedBy > MapService : implements
	Location
< <interface>&gt; INotificationService  + sendNotification(user: User, message: string): Notification</interface>	- locationID: int - latitude: double - longitude: double
+ storeNotification(notification: Notification) - isImplementedBy > NotificationService: implements	

MissingChild	MissingChildData
- childId: int - childData: MissingChildData - reportedBy: User - foundBy: Admin - status: string	- childName: string - dateOfBirth: date - photo: image - location: string
+ viewDetails(): MissingChildData + addMatchedChild(match: MatchedChild) + updateStatus(status: string)	- Age : int

#### MatchedChild

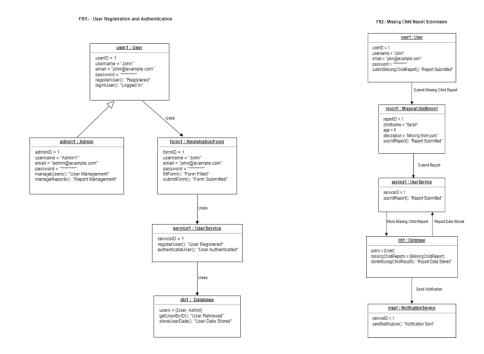
- matchld: int missingChild: MissingChild foundChild: MissingChild matchConfidence: double reportedMatchedBy: User foundMatchedBy: Admin
- + createMatch(missingChild: MissingChild, foundChild: MissingChild, matchConfidence: double): MatchedChild + getMatchesForMissingChild(missingChild: MissingChild): List<MatchedChild>

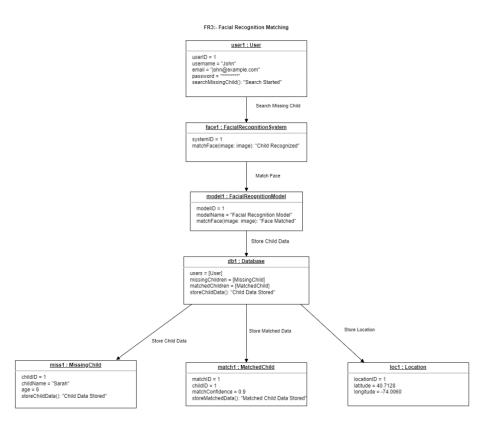
	SearchCriteria
Notification Service	- name: string - age: int
- notifications: List	- location: string - description: string
+ sendNotification(user: User, message: string): Notification + storeNotification(notification: Notification): void	+ setCriteria(name: string, age: int, location: string, description: string) + getCriteria(): SearchCriteria

Report	UserProfile
- reportID: int - userID: int - date: date - description: string - status: string	- profileID: int - firstName: string - lastName: string - age: int - bio: string - location: string - description: string
+ createReport(user: User, description: string): Report + updateStatus(status: string) + storeReport(report: Report)	+ updateProfile(user: User)

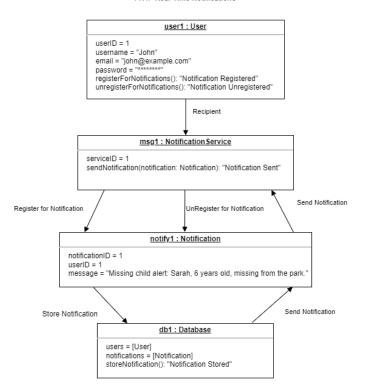
	Map Service
EmergencyContact	- mapData: MapData
- contactID: int - name: string - relationship: string - phoneNumber: string	+ displayMap(location: Location): void + updateMapData(data: MapData): void

### **OBJECT DIAGRAM:-**

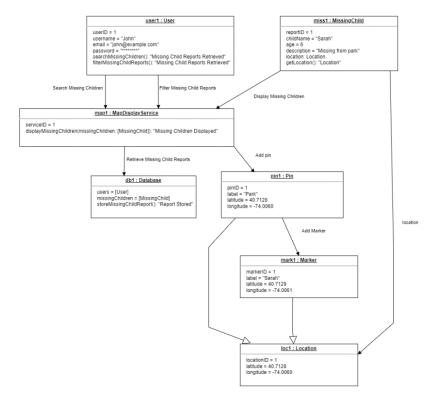


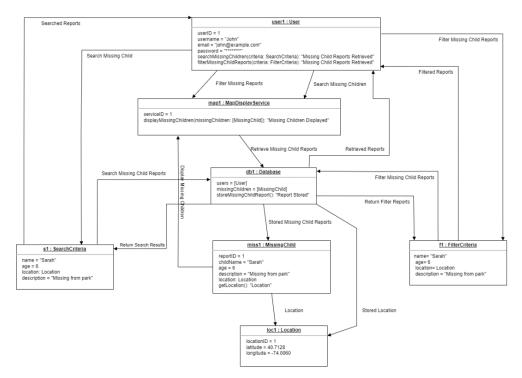


FR4:- Real-Time Notifications

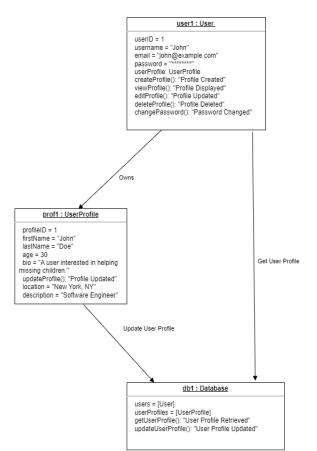


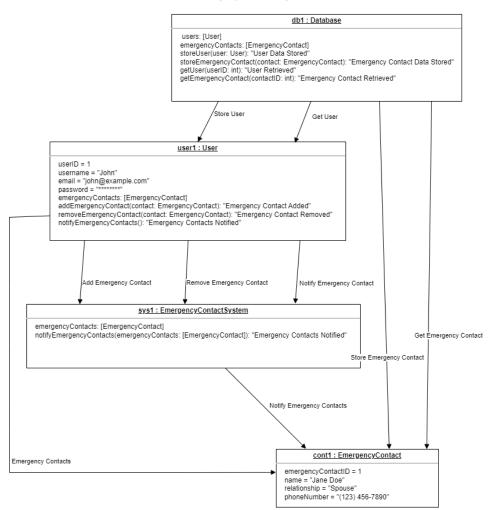
## FR5:- Interactive Map Display



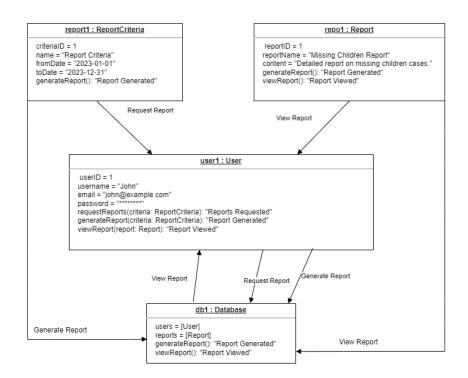


FR7:- Profile Management

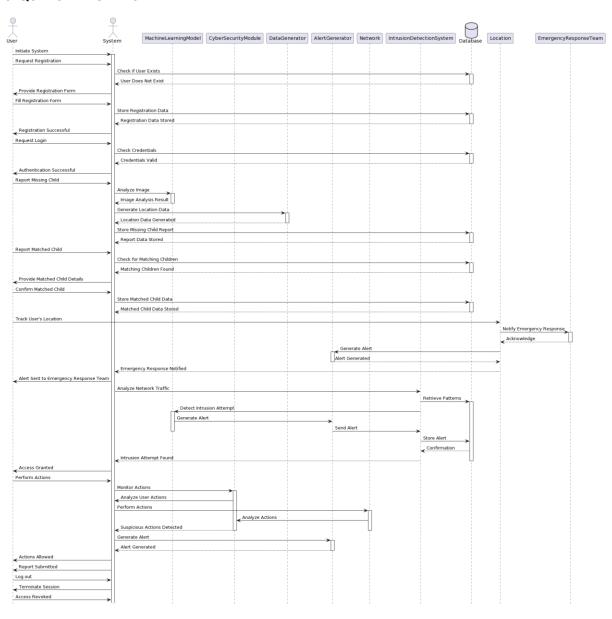


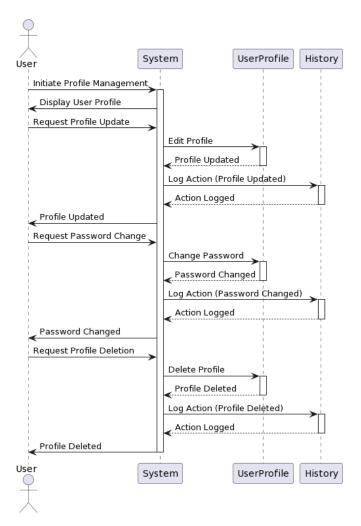


FR9 :- Reporting and Analytics

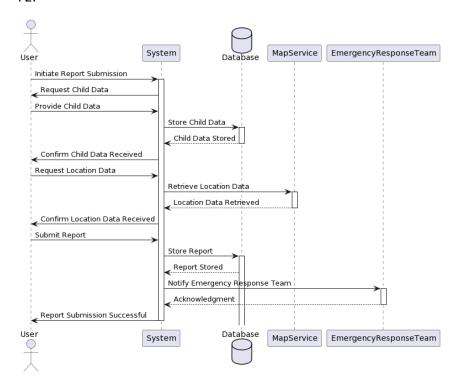


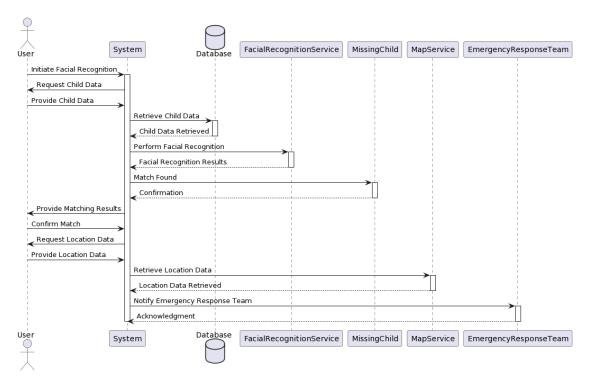
### **SEQUENCE DIAGRAMS:-**



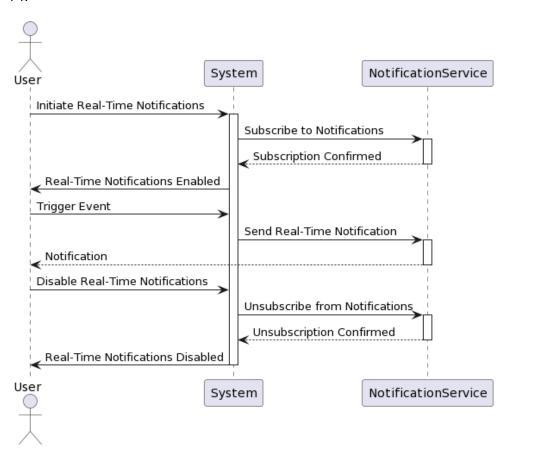


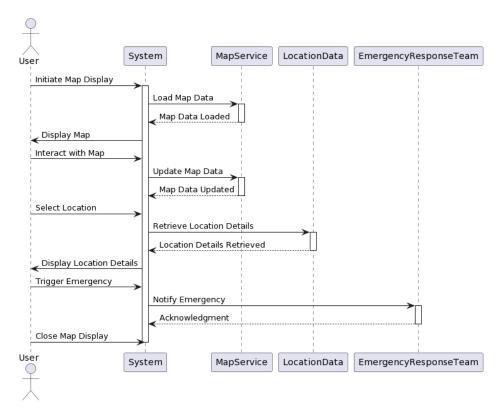
#### F2:-



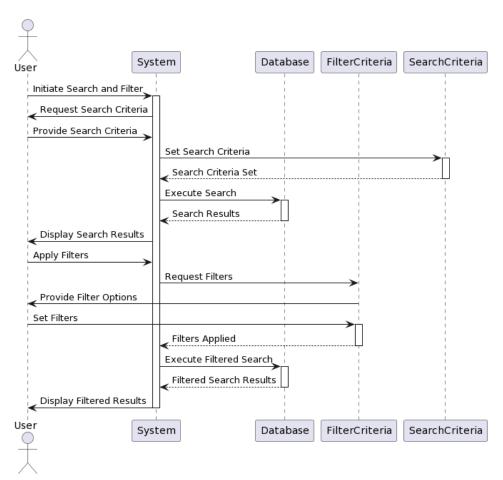


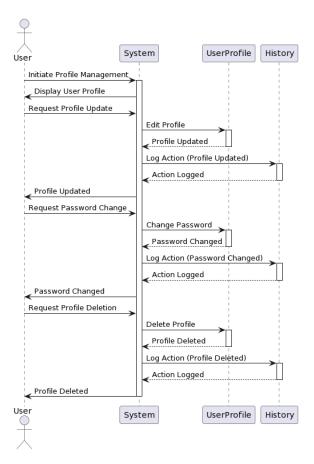
F4:-



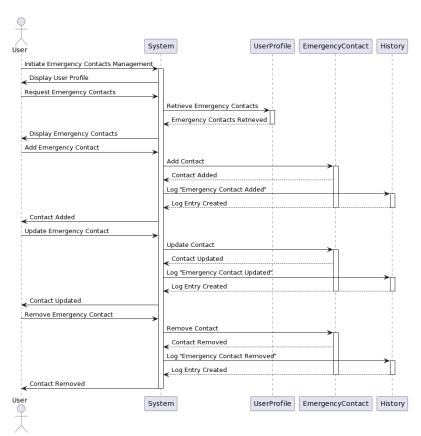


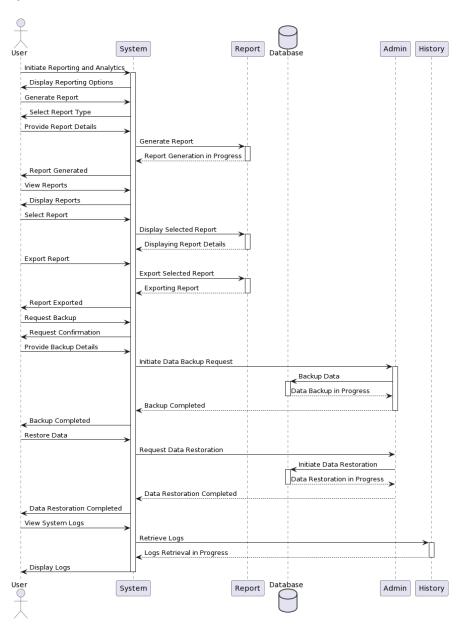
F6:-



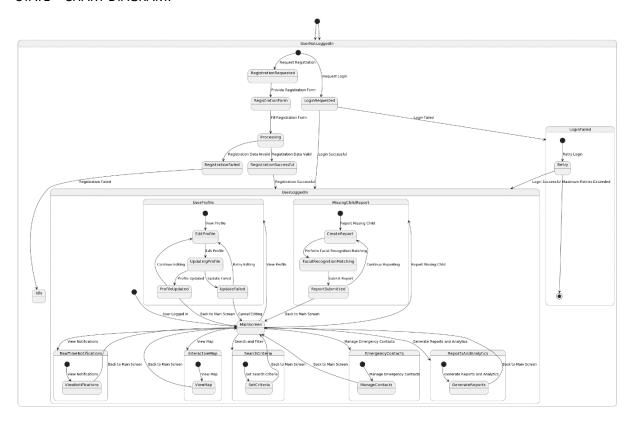


F8:-

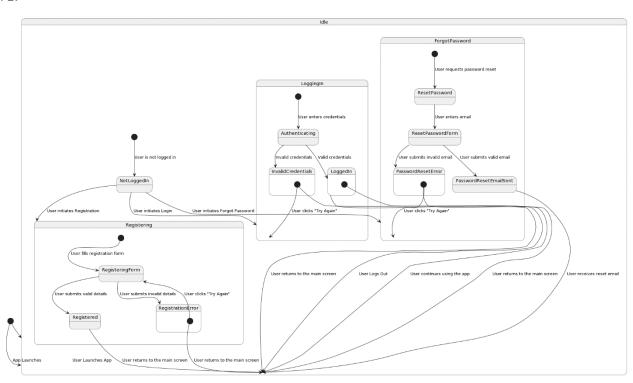


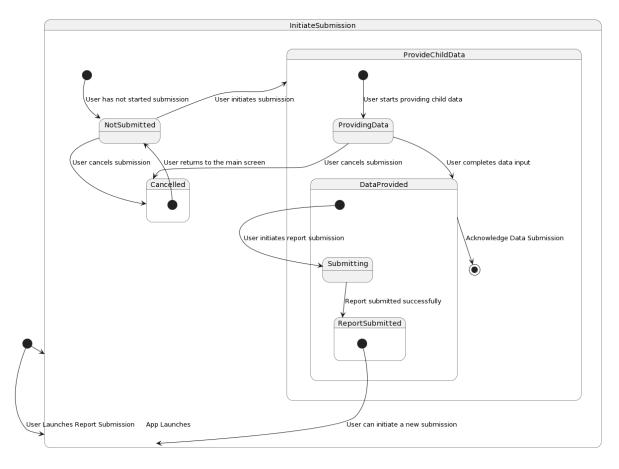


# STATE - CHART DIAGRAM:-

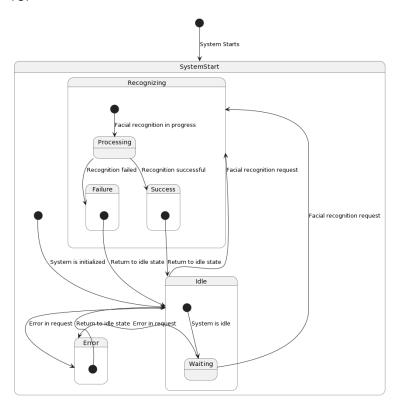


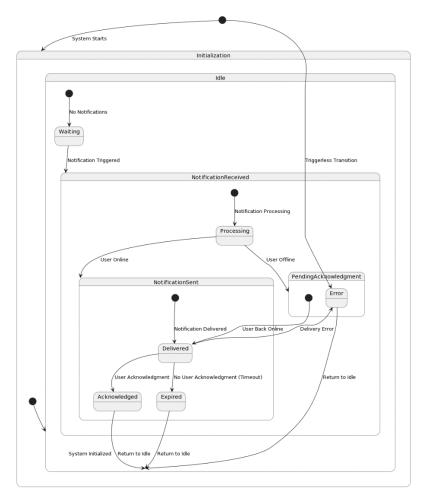
# F1:-



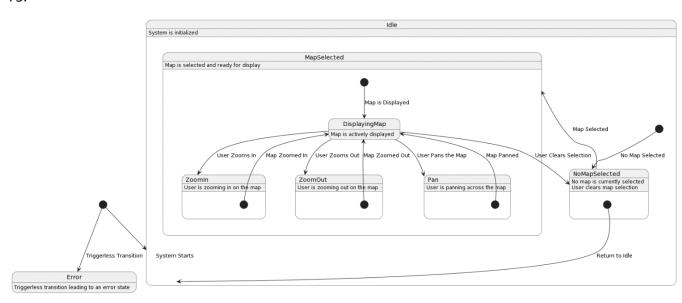


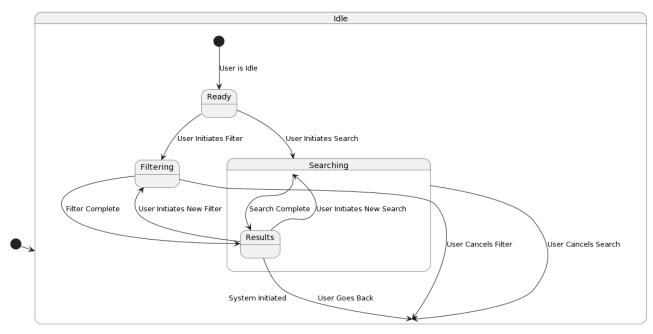
# F3:-

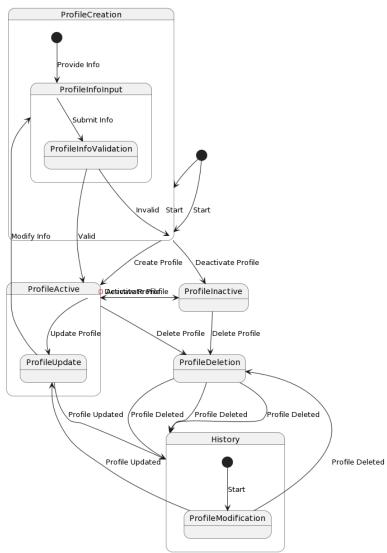




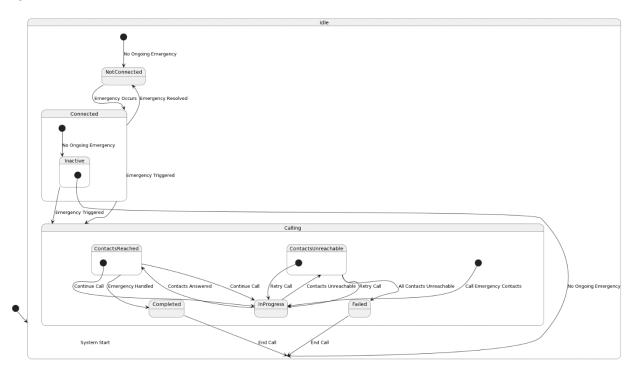
F5:-







F7:-



# F9:-

