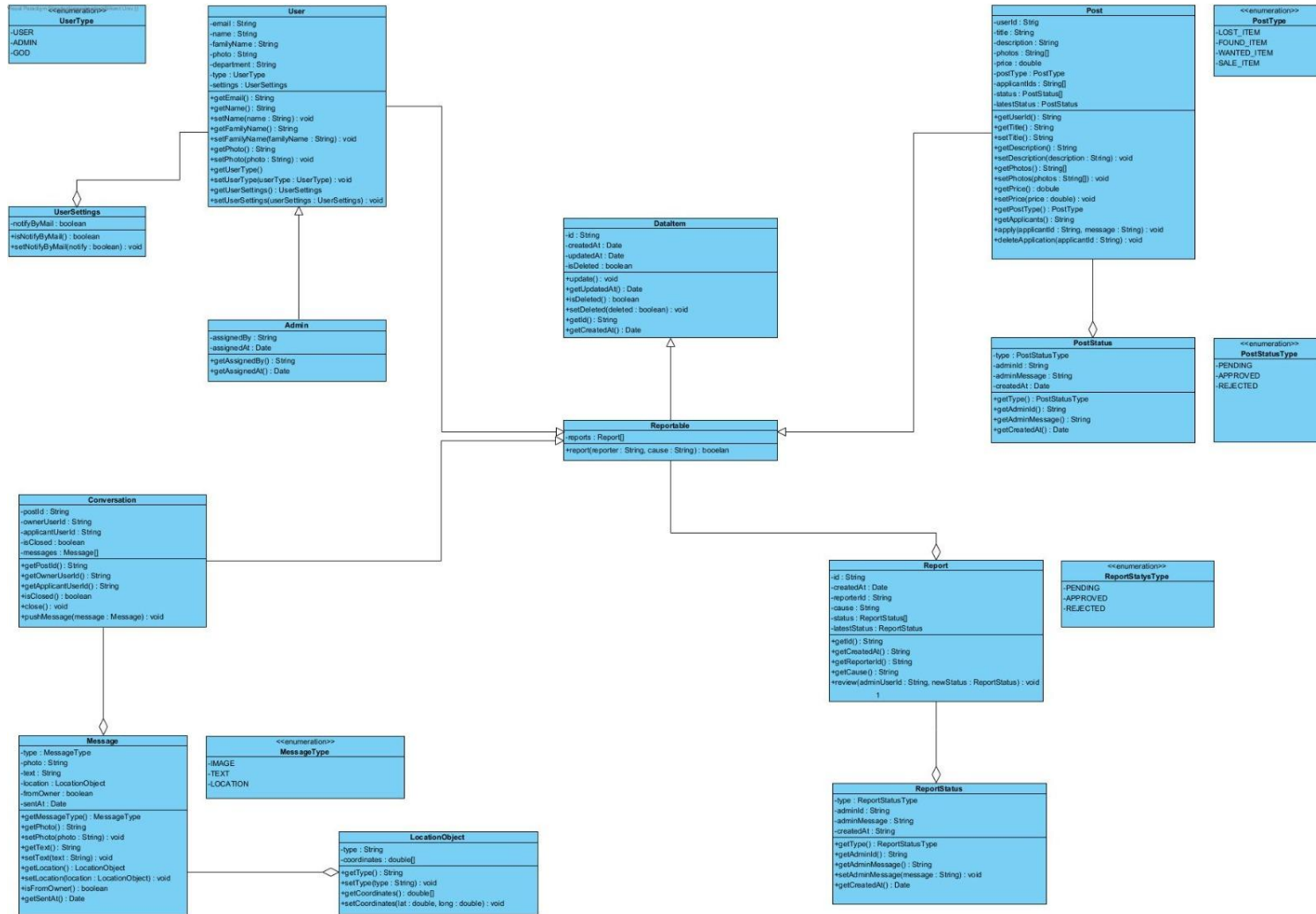# BilFind

Serhat Merak **(22002414)**
Mirza Özgür Atalar **(22003455)**
Kaan Türkoğlu **(22102105)**
Ege Karaahmetoğlu **(22102622)**
Orhun Aysan **(22103005)**
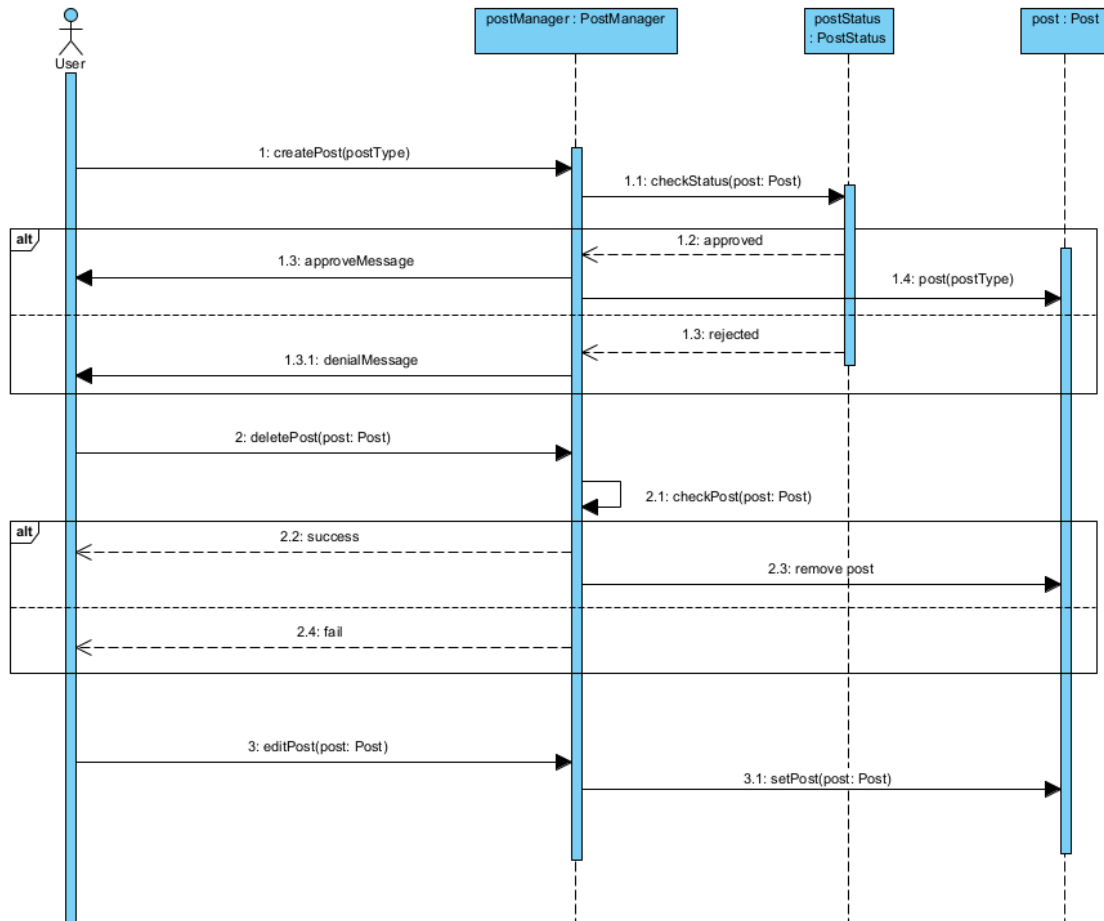
# Table of Contents

# Class Diagram

## UserType
<<enumeration>>
- -USER
- -ADMIN
- -GOD

## User
- -email : String
- -name : String
- -familyName : String
- -photo : String
- -department : String
- -type : UserType
- -settings : UserSettings
- +getEmail() : String
- +getName() : String
- +setName(name : String) : void
- +getFamilyName() : String
- +setFamilyName(familyName : String) : void
- +getPhoto() : String
- +setPhoto(photo : String) : void
- +getUserType()
- +setUserType(userType : UserType) : void
- +getUserSettings() : UserSettings
- +setUserSettings(userSettings : UserSettings) : void

## UserSettings
- -notifyByMail : boolean
- +isNotifyByMail() : boolean
- +setNotifyByMail(notify : boolean) : void

## Admin
- -assignedBy : String
- -assignedAt : Date
- +getAssignedBy() : String
- +getAssignedAt() : Date

## DataItem
- -id : String
- -createdAt : Date
- -updatedAt : Date
- -isDeleted : boolean
- +update() : void
- +getUpdatedAt() : Date
- +isDeleted() : boolean
- +setDeleted(deleted : boolean) : void
- +getId() : String
- +getCreatedAt() : Date

## Reportable
- -reports : Report[]
- +report(reporter : String, cause : String) : boolean

## Post
- -userId : Strig
- -title : String
- -description : String
- -photos : String[]
- -price : double
- -postType : PostType
- -applicantIds : String[]
- -status : PostStatus[]
- -latestStatus : PostStatus
- +getUserId() : String
- +getTitle() : String
- +setTitle() : String
- +getDescription() : String
- +setDescription(description : String) : void
- +getPhotos() : String[]
- +setPhotos(photos : String[]) : void
- +getPrice() : dobule
- +setPrice(price : double) : void
- +getPostType() : PostType
- +getApplicants() : String
- +apply(applicantId : String, message : String) : void
- +deleteApplication(applicantId : String) : void

## PostType
<<enumeration>>
- -LOST_ITEM
- -FOUND_ITEM
- -WANTED_ITEM
- -SALE_ITEM

## PostStatus
- -type : PostStatusType
- -adminId : String
- -adminMessage : String
- -createdAt : Date
- +getType() : PostStatusType
- +getAdminId() : String
- +getAdminMessage() : String
- +getCreatedAt() : Date

## PostStatusType
<<enumeration>>
- -PENDING
- -APPROVED
- -REJECTED

## Conversation
- -postId : String
- -ownerUserId : String
- -applicantUserId : String
- -isClosed : boolean
- -messages : Message[]
- +getPostId() : String
- +getOwnerUserId() : String
- +getApplicantUserId() : String
- +isClosed() : boolean
- +close() : void
- +pushMessage(message : Message) : void

## Report
- -id : String
- -createdAt : Date
- -reporterId : String
- -cause : String
- -status : ReportStatus[]
- -latestStatus : ReportStatus
- +getId() : String
- +getCreatedAt() : String
- +getReporterId() : String
- +getCause() : String
- +review(adminUserId : String, newStatus : ReportStatus) : void

## ReportStatusType
<<enumeration>>
- -PENDING
- -APPROVED
- -REJECTED

## Message
- -type : MessageType
- -photo : String
- -text : String
- -location : LocationObject
- -fromOwner : boolean
- -sentAt : Date
- +getMessageType() : MessageType
- +getPhoto() : String
- +setPhoto(photo : String) : void
- +getText() : String
- +setText(text : String) : void
- +getLocation() : LocationObject
- +setLocation(location : LocationObject) : void
- +isFromOwner() : boolean
- +getSentAt() : Date

## MessageType
<<enumeration>>
- -IMAGE
- -TEXT
- -LOCATION

## LocationObject
- -type : String
- -coordinates : double[]
- +getType() : String
- +setType(type : String) : void
- +getCoordinates() : double[]
- +setCoordinates(lat : double, long : double) : void

## ReportStatus
- -type : ReportStatusType
- -adminId : String
- -adminMessage : String
- -createdAt : Date
- +getType() : ReportStatusType
- +getAdminId() : String
- +getAdminMessage() : String
- +setAdminMessage(message : String) : void
- +getCreatedAt() : Date

# Sequence Diagram

| User | postManager : PostManager | postStatus : PostStatus | post : Post |

1: createPost(postType)

1.1: checkStatus(post: Post)

**alt**

1.2: approved

1.3: approveMessage

1.4: post(postType)

1.3: rejected

1.3.1: denialMessage

2: deletePost(post: Post)

2.1: checkPost(post: Post)

**alt**

2.2: success

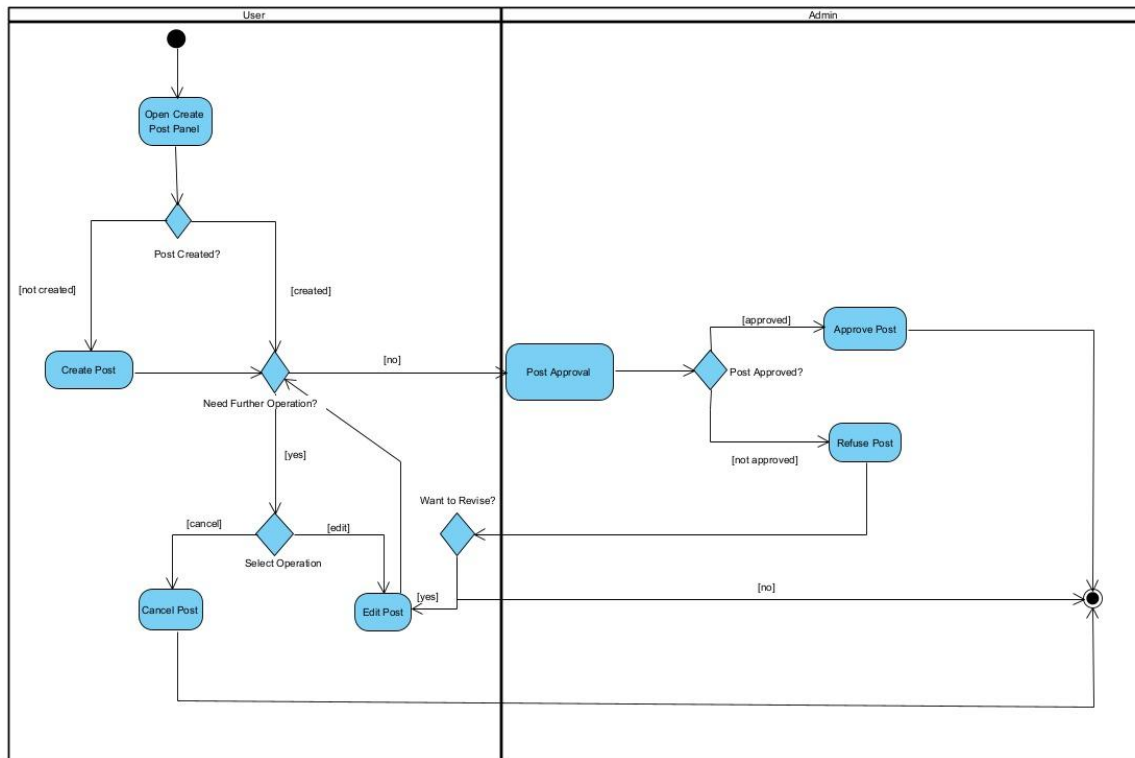2.3: remove post

2.4: fail

3: editPost(post: Post)

3.1: setPost(post: Post)

# Activity Diagrams

## Create Post



## Communication

# Report a Post

| User | Admin |
|---|---|

**User lane:**

● (start)

↓

Report a Post

↓

◇ Need Further Operation?

[no] → (to Admin: Report Approval)

[yes] → ◇ Select Operation

- [edit] → Edit Post
- [cancel] → Cancel Post

Edit Post → (back to Need Further Operation?)

Cancel Post → ◉ (end)

**Admin lane:**

Report Approval → ◇ Is Report Approved?

[approved] → Restrict Post → Send Notification to Reporter → ◉ (end)

[not approved] → Reject Report → ◉ (end)
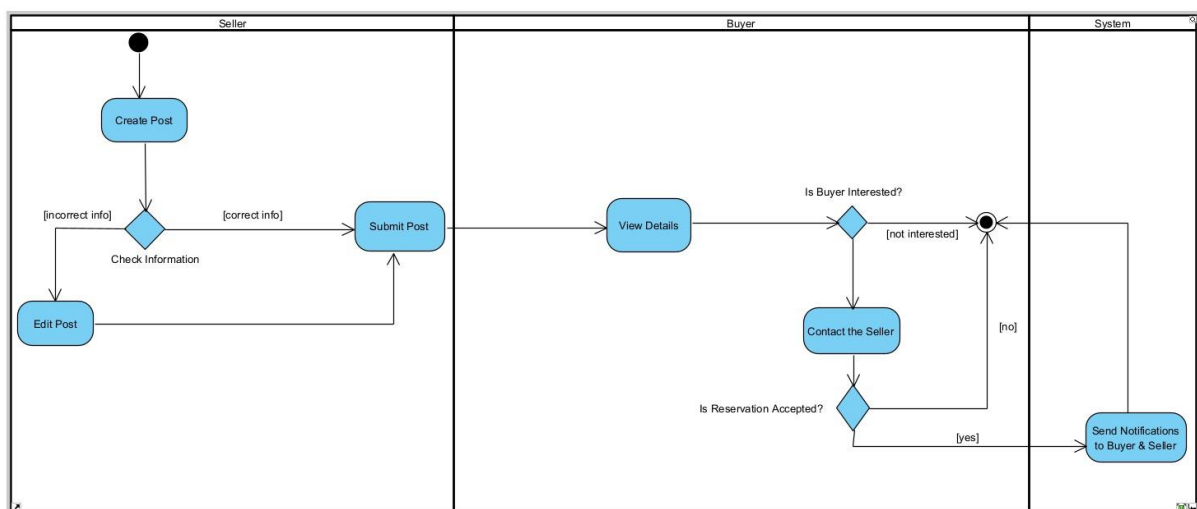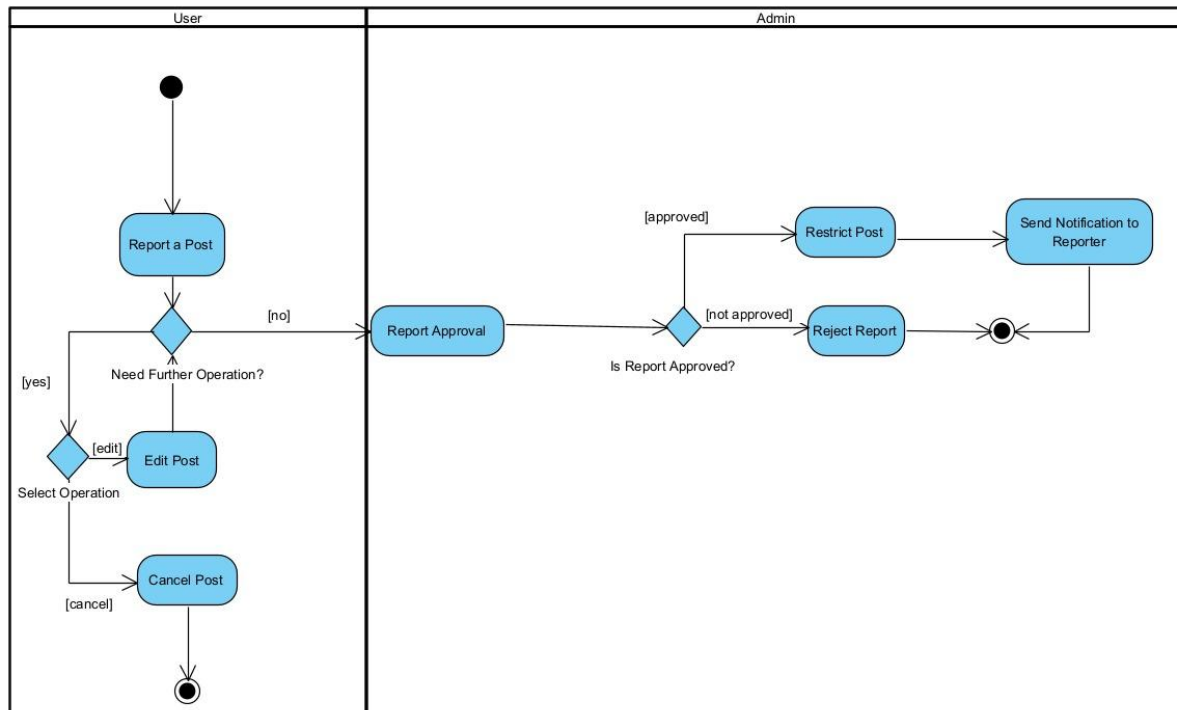
# Mockup UI Design

## Register Screen



## Login Screen

# Forgot Password Screen



# Main Screen

# Chat Screen

# Favorites Screen