HÁSKÓLI ÍSLANDS

HUGBÚNAÐARVERKEFNI II

Sigurður Gauti Samúelsson Ólafur Einar Ómarsson

Object Oriented Design Model

Team 13

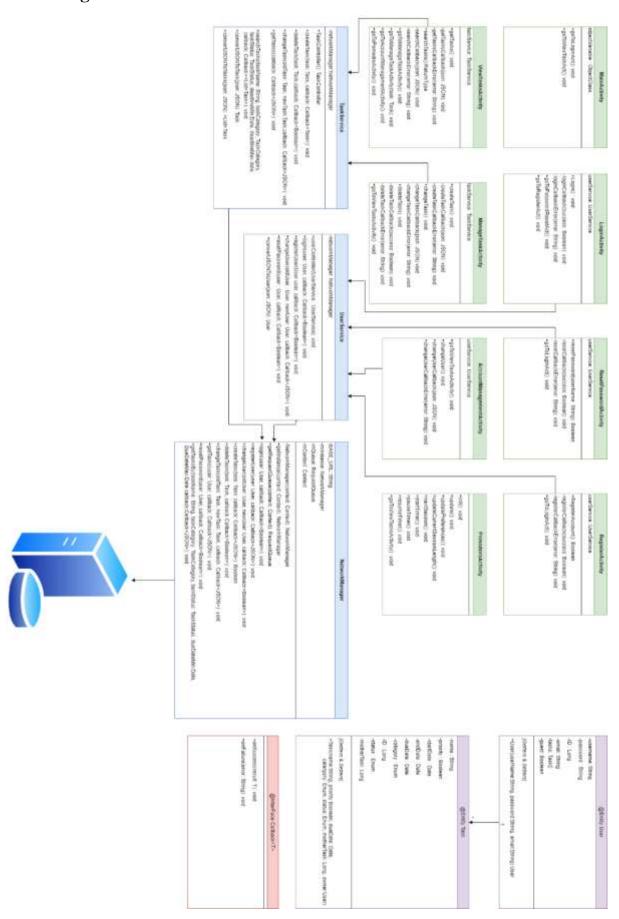
Andri Dagur Ófeigsson (ado15 - 3101992579) Presents

Birna Ósk Helgadóttir (boh21 - 2305992389)

Bóas Guðjónsson (bog26 - 0703922839)

Safa Jemai (saj55 - 0310944029)

Class Diagram



MainActivity

objectVariable : ObjectClass

+goToLoginAct(): void +goToViewTaskAct(): void

LoginActivity

userService: UserService

+Login(): void

loginCallback(success: Boolean): void
loginCallbackError(error: String): void
+goToPasswordResetAct(): void

+goToRegisterAct(): void

ViewTasksActivity

taskService: TaskService

+getTasks(): void

-getTasksCallback(json: JSON): void

-getTasksCallbackError(error: String): void

+searchTasks():ReturnType

-searchCallback(json: JSON): void

-searchCallbackError(error: String): void

+goToManageTaskActivity(): void

+goToManageTaskActivity(task: Task): void +goToAccountManagementActivity(): void

+goToPomodroActivity(): void

ManageTaskActivity

taskService: TaskService

+createTask():void

-createTaskCallback(json: JSON): void

-createTaskCallbackError(error: String): void

+changeTask():void

-changeTaskCallback(json: JSON) void

-changeTaskCallbackError(error: String): void

+deleteTask() :void

-deleteTaskCallback(success: Boolean): void

-deleteTaskCallbackError(error: String): void

+goToViewTasksActivity():void

ResetPasswordActivity

userService: UserService

+resetPassword(userName: String): Boolean -resetCallback(success: Boolean): void -resetCallbackError(error: String): void

+goToLoginAct(); void

RegisterActivity

userService: UserService

+RegisterAccount(): Boolean

-registerCallback(success: Boolean): void
-registerCallbackError(error: String): void

+goToLoginAct(): void

AccountManagementActivity

userService: UserService

+goToViewTasksActivity():void

+changeUser(): void

+changeUserCallback(json: JSON): void

+changeUserCallbackError(error: String): void

PomodoroActivity

+init(): void

+update(): void

+updatePreferences(): void

+updateCurrentSessionLength(): void

+nextSession(): void +startTimer(): void +pauseTimer(): void +resumeTimer(): void

+goToViewTasksActivity():void

TaskService

- -networkManager:NetworkManager
- +TaskController(): TaskController
- +createTask(task: Task, callback: Callback<Task>): void
- +deleteTask(task: Task,callback: Callback<Boolean>): void
- +changeTask(oldTask: Task, newTask:Task,callback: Callback<JSON>): void
- +getTasks(callback: Callback<JSON>): void
- +searchTasks(taskName: String, taskCategory: TaskCategory, taskStatus: TaskStatus, deadlineMin:Date, deadlineMax:date, callback: Callback<<List>Task>): void
- +convertJSONToTask(json: JSON): Task
- +convertJSONToTasks(json: JSON): <List>Task

UserService

- -networkManager: NetworkManager
- +userController(UserService : UserService): void
- +login(user: User, callback: Callback<Boolean>): void
- +registerUser(User user, callback: Callback<Boolean>): void
- +changeUser(oldUser: User, newUser: User, callback: Callback<JSON>): void
- +resetPassword(user: User, callback: Callback<Boolean>): void
- +convertJSONToUser(json: JSON): User

NetworkManager

-BASE_URL: String

-mInstance: NetworkManager
-mQueue: RequestQueue
-mContext: Context

-NetworkManager(context: Context): NetworkManager

+getInstance(context: Context): NetworkManager

+getRequestQueue(context: Context): RequestQueue

+login(user: User, callback: Callback<Boolean>): void

+registerUser(user: User, callback: Callback<JSON>): void

+changeUser(oldUser: User, newUser: User, callback: Callback<Boolean>): void

+createTask(task: Task: callback: Callback<JSON>): Boolean

+deleteTask(task: Task, callback Callback<Boolean>): void

+changeTask(oldTask: Task, newTask: Task, callback: Callback<JSON>): void

+getTasks(user: User, callback: Callback<JSON>): void

+resetPassword(user: User, callback: Callback<Boolean>): void

+getTasksBy(taskName: String, taskCategory: TaskCategory, taskStatus: TaskStatus, dueDateMin:Date,

DueDateMax:Date callback:Callback<JSON>): void

@Entity User -username: String -password : String -ID : Long -email: String -tasks: Task[] -guest: Boolean [Getters & Setters] +User(userName:String, password:String, email:String):User

@Entity Task

-name : String -priority : Boolean -startDate : Date -endDate : Date -dueDate : Date -category : Enum -ID : Long

-status : Enum -motherTask: Long

[Getters & Setters]

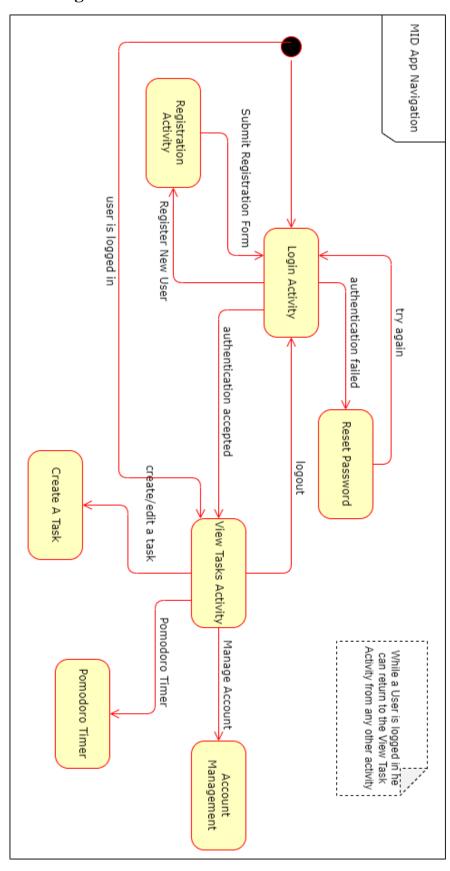
+Task(name:String, priority Boolean, dueDate: Date, catergory: Enum, status: Enum, motherTask: Long, owner:User)

@InterFace Callback<T>

+onSuccess(result: T): void

+onFailure(error: String): void

State Machine Diagram



Sequence Diagram

