Exercise

- _id: ObjectId
- idString: String
- email: String
- typeofExercise: String
- · lifted: boolean
- dateOfWorkout: Date
- timeSpent: double
- caloriesBurned: double
- sets: int
- miles: double
- weightLifted: double
- + Exercise(id: ObjectId, idString: String, email: String, typeofExercise: String, lifted: boolean. dateOfWorkout: Date, timeSpent: double, caloriesBurned: double, sets: int, miles: double, weightLifted:
- double) + set_id(_id: ObjectId): void
- + set_idString(_idString: String):
- + setEmail(email: String): void
- setTypeofExercise(typeofExercise: String): void
- + setLifted(lifted: boolean): void
- setDateOfWorkout(dateOfWorkout: Date): void
- + setTimeSpent(timeSpent:
- double): void
- setCaloriesBurned(caloriesBurned: double): void
- + setSets(sets: int): void
- + setMiles(miles: double): void
- + setWeightLifted(weightLifted: double): void
- + get_id(): ObjectId
- + get_idString(): String
- + getEmail(): String + getTypeofExercise(): String
- + isLifted(): boolean
- + getDateOfWorkout(): Date
- + getTimeSpent(): double
- getCaloriesBurned(): double + getSets(): int
- + getMiles(): double
- + getWeightLifted(): double
- insertExercise(): void

id: ObjectId

email: String

idString: String

mediaLink: String

+ set_id(ObjectId): void

+ setEmail(String): void

+ set idString(String): void

+ setCreatedAt(Date): void

+ setCaption(String): void

+ setLikes(int): void

+ get_id(): ObjectId

+ getEmail(): String

+ get_idString(): String

getMediaLink(): String

getCreatedAt(): Date

+ getCaption(): String

+ insertPosts(): void

getLikes(): int

setMediaLink(String): void

createdAt: Date

caption: String

likes: int

Posts

- _id: ObjectId idString: String
- locationName: String
- address: String zipCode: String
- state: String
- averageRating: double
- + Locations(_id: ObjectId, _idString: String, locationName: String, address: String, zipCode: String, state: String, averageRating: double)

Locations

Reviews

_id: ObjectId

email: String

- rating: double

review: String

createdAt: Date

- location_id: String

+ set id(ObjectId): void

+ setEmail(String): void

+ setRating(double): void

+ setReview(String): void

+ get id(): ObjectId

+ getEmail(): String

+ getRating(): double

getReview(): String

+ getCreatedAt(): Date

+ insertReviews(): void

+ getLocation_id(): String

+ get_idString(): String

+ setCreatedAt(Date): void

+ setLocation id(String): void

+ set_idString(String): void

_idString: String

- + setLocationName(locationName: Strina): void
- + setAddress(address: String): void
- + setZipCode(zipCode: String): void
- + setState(state: String): void
- + setAverageRating(averageRating: double): void
- + get_id(): ObjectId
- + get_idString(): String
- + getLocationName(): String + getAddress(): String
- + getZipCode(): String
- + getState(): String
- getAverageRating(): double
- + insertLocations(): void

- phoneNumber: String birthday: Date

User

- startingWeight: double currentWeight: double
- goalWeight: double
- height: double

id: ObjectId

- fName: String

- IName: String

- username: String email: String

- profilePicture: String totalTimeInGym: double
- totalCaloriesBurned: double
- + set_id(ObjectId): void
- + setfName(String): void
- + setlName(String): void + setUsername(String): void
- + setEmail(String): void
- + setPhoneNumber(String): void
- + setBirthday(Date): void
- + setStartingWeight(double): void
- + setCurrentWeight(double): void
- + setGoalWeight(double): void
- + setHeight(double): void
- + setProfilePicture(String): void
- + setTotalTimeInGym(double): void
- setTotalCaloriesBurned(double)
- + get_id(): ObjectId
- + getfName(): String
- + getlName(): String
- + getUsername(): String
- + getEmail(): String
- + getPhoneNumber(): String
- + getBirthday(): Date + getStartingWeight(): double
- + getCurrentWeight(): double
- + getGoalWeight(): double
- + getHeight(): double
- + getProfilePicture(): String
- + getTotalTimeInGym(): double + getTotalCaloriesBurned():
- double + insertUser(): void
- + updateUserName(String,
- String): void

MongoDBControl

- database: MongoDatabase
- registerUser(username: String, password: String): void
- findIdWithUserName(userName: String, collectionName: String): List
- + update(ids: List, collectionName: String, key: String, value: T): void

App

- scene: Scene
- + start(stage: Stage)
- + setRoot(fxml: String)
- loadFXML(fxml: String): Parent
- + main(args: String[])

ServerViewModel

- process: Process
- processBuilder: ProcessBuilder
- port: String serverRunning: boolean
- + startServer(): void + stopServer(): void
- + setTotalTimeInGym(totalTimeInGym: double): void
- + setProfilePicture(profilePicture: String):
- + setFirstName(fName: String): void
- setLastName(IName: String): void + setUsername(username: String): void
- + setPhoneNumber(phoneNumber: String): void
- + setStartingWeight(startingWeight: double): void
- + setCurrentWeight(currentWeight: double): void
- + setGoalWeight(goalWeight: double): void + setHeight(height: double): void
- + setTotalCaloriesBurned(caloriesBurned: double): void

PrimaryController

+ switchToSecondary():

- + updateFieldUser(field: String, newValue: String): void
- + postHTTPRequest(data: String,
- endpoint: String): void + closeServer(): void

void

- weatherWebView: WebView
- webViewMessageWeather:
- WebView - cardioPieChart: PieChart
- weeklyProgressChart: LineChart

TrackingController

- weeklyTotalTimeChart: BarChart
- rootPane: Pane
- + initialize(): void
- handleDashBoardInBtnAction(event:
- ActionEvent): void + handleMapBtnAction(event: ActionEvent): void
- + handleEditButtonAction(event: ActionEvent): void
- applySmoothFillTransition(rect: Rectangle, fromColor: Color, toColor: Color): void

MapController

- weeklyProgressChart: LineChart
- mapWebView: WebView
- + initialize(): void

ActionEvent): void

- + handleDashButtonAction(event: ActionEvent): void + handleEditButtonAction(event:
- handleTrackingButtonAction(event: ActionEvent): void

LoginPageController

- fitnessPhoto: ImageView
- + initialize(): void
- + handleSignInBtnAction(event: ActionEvent): void

SignUpController

- class SignUpPageController {
- userSignup: TextField
- emailSignup: TextField
- pwSignup: PasswordField - fitnessPhoto1: ImageView
- + initialize(): void
- handleBackToLogInBtnAction(event:
- ActionEvent): void + handleSignUpBtnAction(event: ActionEvent): void
- validUsername(username: String): boolean - validEmail(email: String): boolean - strongPassword(password: String):
- boolean - showAlert(title: String, message: String): void

DataFetchController

- firstNameTextField: TextField - lastNameTextField: TextField
- phoneNumberTextField: TextField
- weightTextField: TextField - heightTextField: TextField
- startJourneyButton: Button - searchingPhoto: ImageView
- + initialize(): void + handleDashBtnAction(): void
- Alert.AlertType, title: String,
- message: String): void
- + handleSignUpBtnAction(event: ActionEvent): void
- checkFields(): boolean - showAlert(alertType: