TEAM 10 Project UML

LEGEND:

RED - MODEL
BLUE - CONTROLLER
BLACK - VIEW/CONTROLLER

CommentModel
- -title: String
- -content: String
- -author: String
- -location: LocationModel
- -photo: Bitmap
- -timeStamp: Calendar
- -numFavourites: Integer
- -authorAndroidID: String
- -subComments: ArrayList<SubCommentModel>
- -photoPath: String
- -imageUri: Uri
- +addSubComment(subComment:SubCommentModel): void

UserModel
- -androidID: Integer
- -favourites: ArrayList<CommentModel>
- -readComments: ArrayList<CommentModel>
- -wantToReadComments: ArrayList<CommentModel>
- -userName: String
- -sortByPic: boolean
- -sortByDate: boolean
- -sortByLoc: boolean
- -sortByPopularity: boolean
- +UserModel(androidID:int)
- +UserModel(androidID:int,favourites:ArrayList<CommentModel>,
      readComments:ArrayList<CommentModel>,
      wantToReadComments:ArrayList<CommentModel>,
      userName:String)
- +setSortByPic(sortByPic:boolean): void
- +setSortByDate(sortByDate:boolean): void
- +setSortByLoc(sortByLoc:boolean): void
- +setSortByPopularity(sortByPopularity:boolean): void

LocationModel
- -name: String
- -latitude: double
- -longitude: double
- +LocationModel(name:String,lat:double,lng:double)

SubCommentModel
- -parentTitle: String
- +SubCommentModel(parentComment:CommentModel)

SetUserNameActivity
- -userData: UserModel
- -userNameField: EditText
- -setButton: Button
- -skipButton: Button
- -appState: ApplicationStateModel

Queries a default username from the user but gives the option to skip this setting.

Takes a list of head models from the data controller to display to the user.

MainListviewAdapter
- -inflater: LayoutInflater
- -headCommentList: ArrayList<CommentModel>
- -sdf: SimpleDateFormat
- -timeString: String
- +MainListViewAdapter(context:Context,commentList:ArrayList<CommentModel>)
- +getCount(): int
- +getItem(position:int): CommentModel
- +getItemId(position:int): long

Shows a list of head comments and starts a SubCommentViewActivity for a head comment if one is clicked.

MainListViewActivity
- -commentView: ListView
- -layoutInflater: LayoutInflater
- -appState: ApplicationStateModel
- -editUsername(): void
- -sortComments(): void

Displays a head comment at the top of the screen and the list of all its subcomments below.

CommentActivity <<Interface>>
- +fillContents(username:String,parentModel:CommentModel): void
- +checkStringIsAllWhiteSpace(string:String): boolean
- +chooseLocation(v:View): void
- +choosePhoto(v:View): void
- +attemptCommentCreation(v:View): void

SubCommentViewActivity
- -subListView: ListView
- -appState: ApplicationStateModel
- -commentList: ArrayList<? extends CommentModel>
- -sortedList: ArrayList<CommentModel>
- -actionbar: ActionBar
- -headerView: View
- -layoutInflater: LayoutInflater
- -addCommentToList(subCommentList:ArrayList<? extends CommentModel>)
- -addFavourite(comment:CommentModel): void
- -editUserName(): void
- -openMoreDialog(comment:CommentModel): void
- -setHeader(headComment:CommentModel): View
- -openReply(): void
- -sortComments(): void
- -timeToString(calendar:Calendar): String

Takes a list of sub comments to display to the user.

SubCommentViewActivityAdapter
- -context: Context
- -layoutResourceId: int
- -commentList: ArrayList<CommentModel>
- -userData: UserModel
- -appState: ApplicationStateModel
- +SubCommentViewActivityAdapter(context:Context,
      layoutResourceId:int,
      commentList:ArrayList<CommentModel>,
      userData:UserModel)
- -timeToString(): String

CreateCommentActivity
- -postTitle: String
- -postUsername: String
- -postContents: String
- -postLocation: LocationModel
- -postPhoto: Bitmap
- -ueditText: EditText
- -teditText: EditText
- -ceditText: EditText
- -bestKnownLoc: Location = null
- -model: CommentModel
- -locationListener: LocationListenerModel
- -appState: ApplicationStateModel

Allows user to set up a comment including location, picture, username and comment text

EditCommentActivity
- -postTitle: String
- -postUsername: String
- -postContents: String
- -postLocation: LocationModel
- -postPhoto: Bitmap
- -ueditText: EditText
- -teditText: EditText
- -ceditText: EditText
- -bestKnownLoc: Location = null
- -model: CommentModel
- -locationListener: LocationListenerModel
- -appState: ApplicationStateModel

Allow the comment creater to edit their comments based on their unique Android ID

LocationListenerModel
- -currentBestLocation: Location
- -gpsEnabled: boolean
- -netEnabled: boolean
- -mLocationManager: LocationManager
- -locationGPS: Location
- -locationNet: Location
- +LocationListenerController(context:Context)
- #noGPSError(): void
- +getLastBestLocation(): Location
- +removeUpdates(): void
- #isBetterLocation(): boolean

ApplicationStateModel <<Singleton>>
- -instance: ApplicationStateModel = null
- -COMMENT_fileContext: Context
- -COMMENT_FILE_NAME: String = "comments.sav"
- -USER_fileContext: Context
- -USER_FILE_NAME: String = "user.sav"
- -MLVAdapter: MainListviewAdapter
- -SCVAdapter: SubCommentViewActivityAdapter
- -commentList: ArrayList<CommentModel>
- -userModel: UserModel
- -subCommentViewHead: CommentModel
- -createCommentParent: CommentModel
- -commentToEdit: CommentModel
- +getInstance(): ApplicationStateModel
- +popularityCompare(): Comparator<CommentModel>
- +locCompare(): Comparator<CommentModel>
- +dateCompare(): Comparator<CommentModel>
- +updateMainAdapter(): void
- +updateSubAdapter(): void
- +saveComments(): void
- +loadComments(): void
- +saveUser(): void
- +loadUser(): void
- +sort(list:ArrayList<CommentModel>,cmp:Comparator<CommentModel>): ArrayList<CommentModel>
- +pictureSort(list:ArrayList<CommentModel>,
      cmp:Comparator<CommentModel>): ArrayList<CommentModel>
- +sort2(list:ArrayList<SubCommentModel>,cmp:Comparator<CommentModel>): ArrayList<SubCommentModel>

InternetServiceProvider
- -saveUrl: String

updates
Starts
0..*
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