

NORTHERN CYPRUS CAMPUS

Software Engineering - CNG 350 Semester Project Design

Deniz Yılmazok

Notes

Given date examples in this section are in the format Day/Month/Year with 24 hour period.

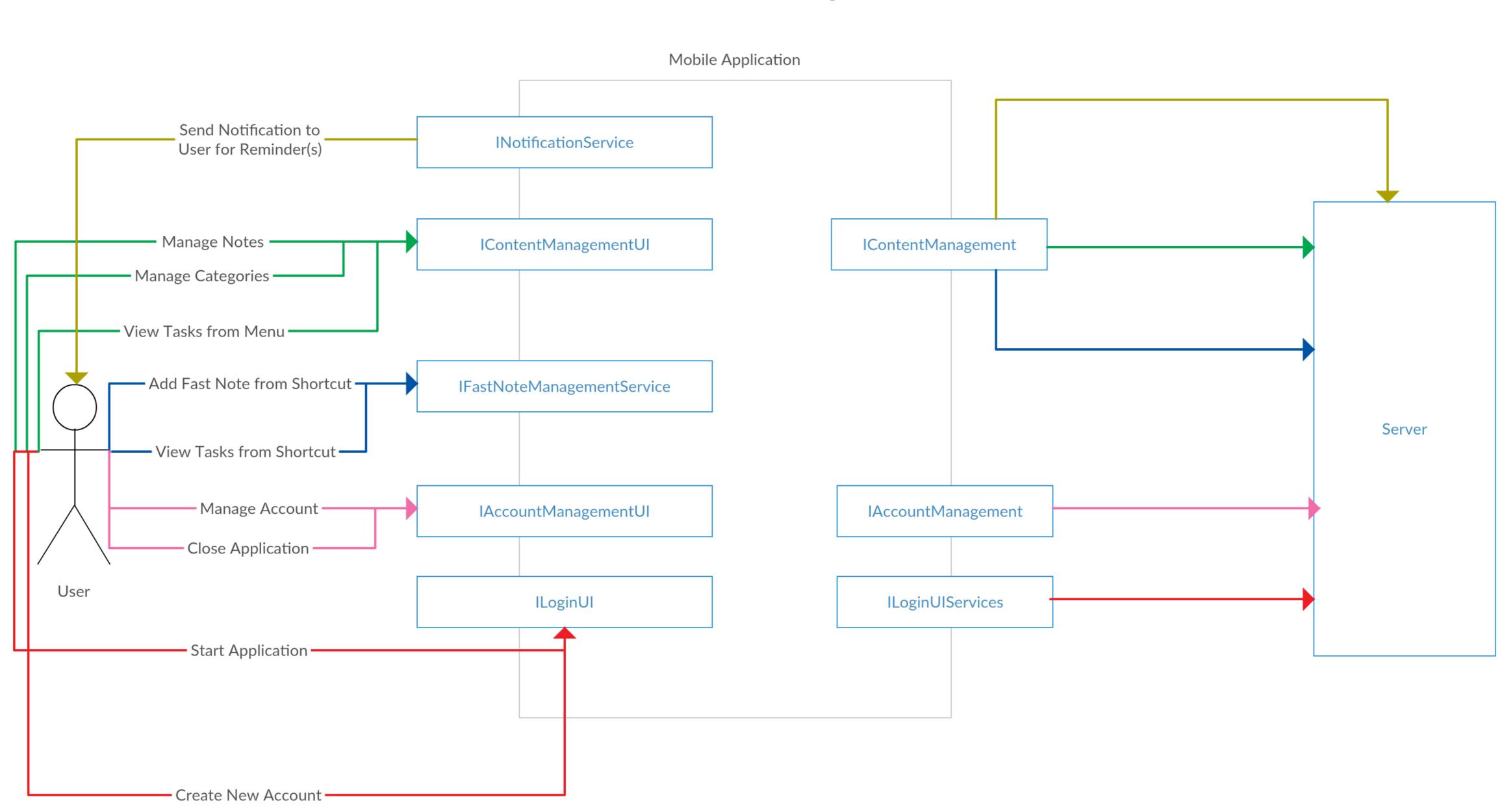
Our design for reminders is kept very simple. Reminders just store Date object and integer named interval to be notified. For example, let's assume we have a reminder object with Date of 01/01/2017 15:00 and interval which is 3. Then, this reminder will be reminded by the system as follows:

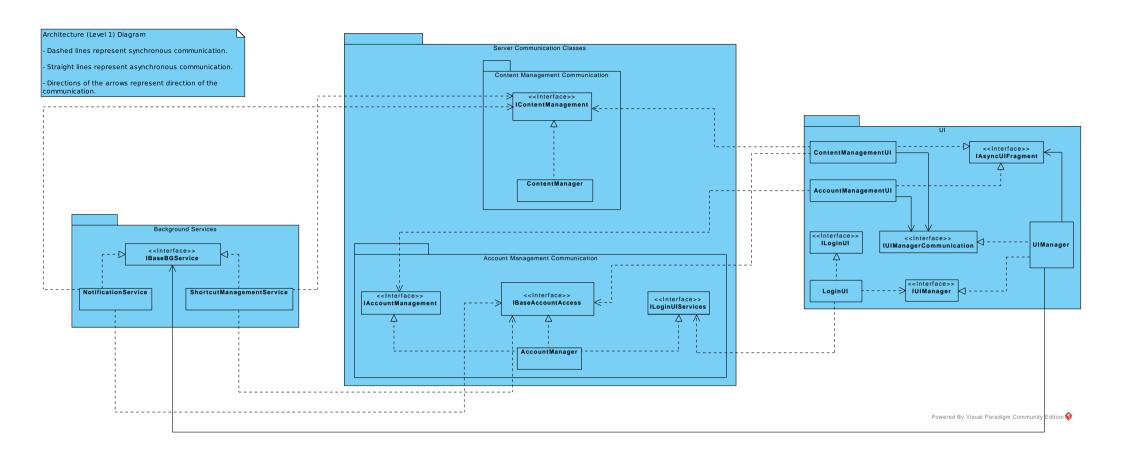
- 04/01/2017 15:00
- 07/01/2017 15:00
- 10/01/2017 15:00

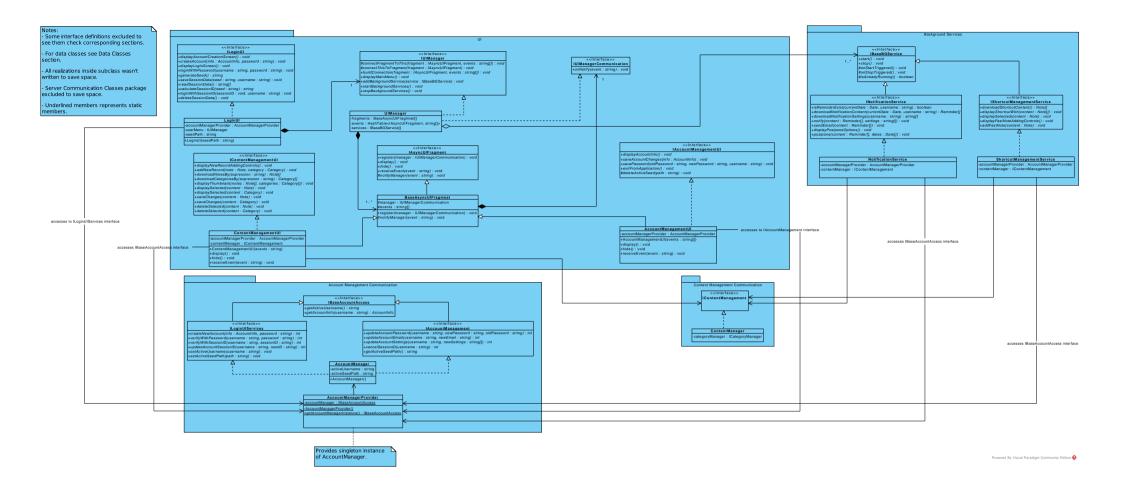
Notes:

- Arrow from IFastNoteManagementService indicates notification is sent to user by system. That is, interaction is started by system. After that, user is able to interact with the notification.
- IAccountManagement and ILoginUIServices could be merged as a one interface. But, they are separate from each other because of the security reasons.
- IContentManagement, IAccountManagement and ILoginUIServices are implemented inside the mobile application and they use APIs provided on server side for use cases represented with corresponding colors.

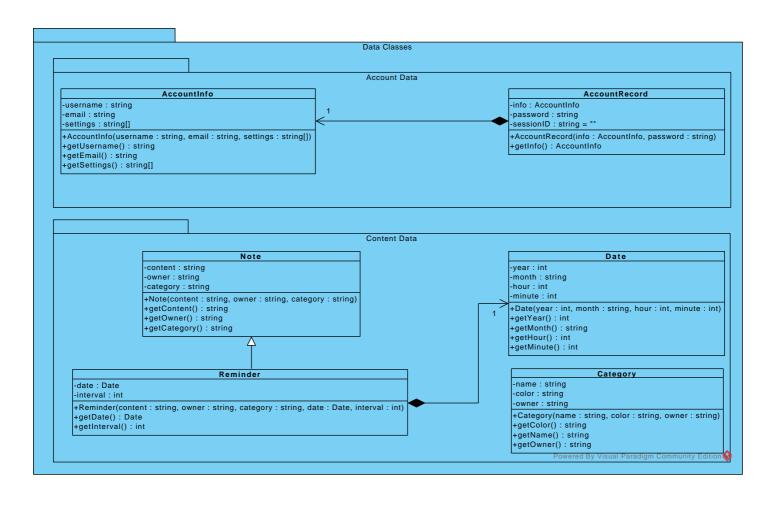
Context (Level 0) Diagram

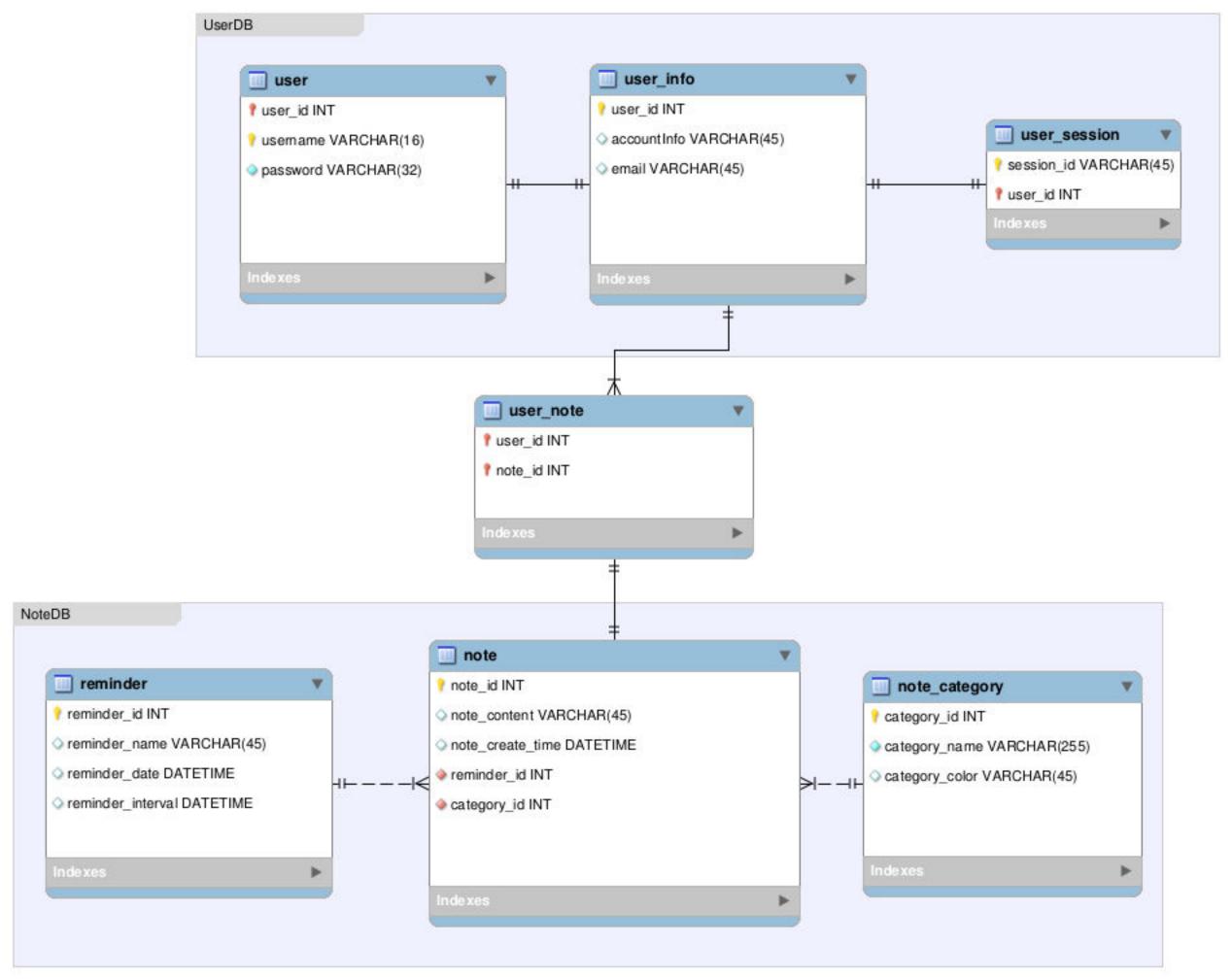






```
IContentManagement
{
    // Note management functions
    createNewNote(note : Note) : int
    searchNoteBy(expression : string) : Note[]
    updateNoteContent(target : Note, newContent : string) : int
    updateNoteCategory(target : Note, newCategory : string) : int
    createNewReminder(reminder: Reminder): int
    searchReminderBy(expression : string) : Reminder[]
    updateReminderDate(target : Reminder, newDate : Date) : int
    updateReminderInterval(target : Reminder) : int
    sendEmailFor(reminders : Reminder[]) : int
    deleteNote(target : Note) : int
    // Categrory Management functions
    createNewCategory(category: Category): int
    searchCategoryBy(title : string, owner : string) : Category[]
    updateCategoryTitle(newTitle : string, oldTitle : string, owner : string) : int
    updateCategoryColor(newColor : string, title : string, owner : string) : int
    deleteCategory(title : string, owner : string) : int
}
```





Use Case	LoginUI	UIManager	AccountManagementUI	AccountManager	AccountManagerProvider	ContentManagementUI	ContentManager	NotificationService	ShortcutManagementService
Manage Notes		onNotify()		getActiveUsername()	getAccountManagerInstan ce()	display() notifyManager() displayNewRecordAddingControls () addNewRecord() downloadNotesBy() downloadCategoriesBy() displayThumbnails() displaySelected(: Note) saveChanges(: Note) deleteSelected(: Note)	createNewNote() searchNoteBy() updateNoteContent() updateNoteCategory() createNewReminder() searchReminderBy() updateReminderDate() updateReminderInterval () deleteNote() createNewCategory() searchCategoryBy() deleteCategory()		
Manage Categories		onNotify()		getActiveUsername()	getAccountManagerInstan ce()	display() notifyManager() displayNewRecordAddingControls () addNewRecord() downloadCategoriesBy() displayThumbnails() displaySelected(: Category) saveChanges(: Category) deleteSelected(: Category)	createNewCategory() searchCategoryBy() updateCategoryTitle() updateCategoryColor() deleteCategory()		
Manage Fast Notes				getActiveUsername()	getAccountManagerInstan ce()		createNewNote() searchNoteBy() searchReminderBy()		downloadShortcutContent() displayShortcutWith() displaySelected() displayFastNoteAddingControl s() addFastNote()
Manage Account		onNotify()	display() notifyManager() displayAccountInfo() saveAccountChanges() savePassword()	getActiveUsername() getAccountInfo() updateAccountPasswor d() updateAccountEmail() updateAccountSettings()	getAccountManagerInstan ce()				

Close Application		onNotify() stopBackgroundServ ices()	display() notifyManager() exitFromApplication() deleteActiveSeed()	getActiveUsername() cancelSessionID() getActiveSeedPath()	getAccountManagerInstan ce()	stop() onStopTriggered()	stop() onStopTriggered()
Start Application	displayLoginScreen() loginWithPassword() generateSeed() saveSessionData() readSessionData() calculateSessionID() loginWithSessionID() deleteSessionData()	connectFragmentTo This() connectThisToFragm ent() buildConnection() displayMainMenu() addBackgroundServi ce() startBackgroundServ ices()		verifyWithPassword() verifyWithSessionID() updateAccountSessionI D() setActiveUsername() setActiveSeedPath()	getAccountManagerInstan ce()	start() onStartTriggered() isAlreadyRunning()	start() onStartTriggered() isAlreadyRunning()
Create New Account	displayAccountCreat ionScreen() createAccount() displayLoginScreen()			createNewAccount()	getAccountManagerInstan ce()		
Send Notification to User for Reminder(s)				getActiveUsername() getAccountInfo()	getAccountManagerInstan ce() updateReminderDate()	isReminderExist() downloadNotificatio nContent() downloadNotificatio nSettings() notify() sendEmail()	
						displayPostponeOp tions() postpone()	

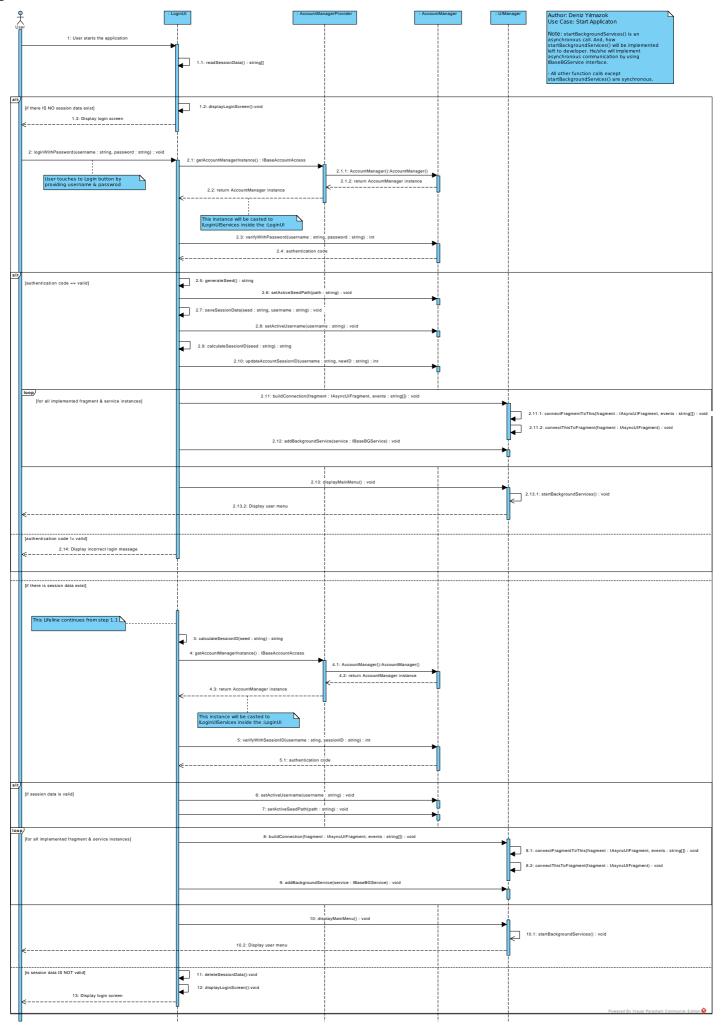
Notes

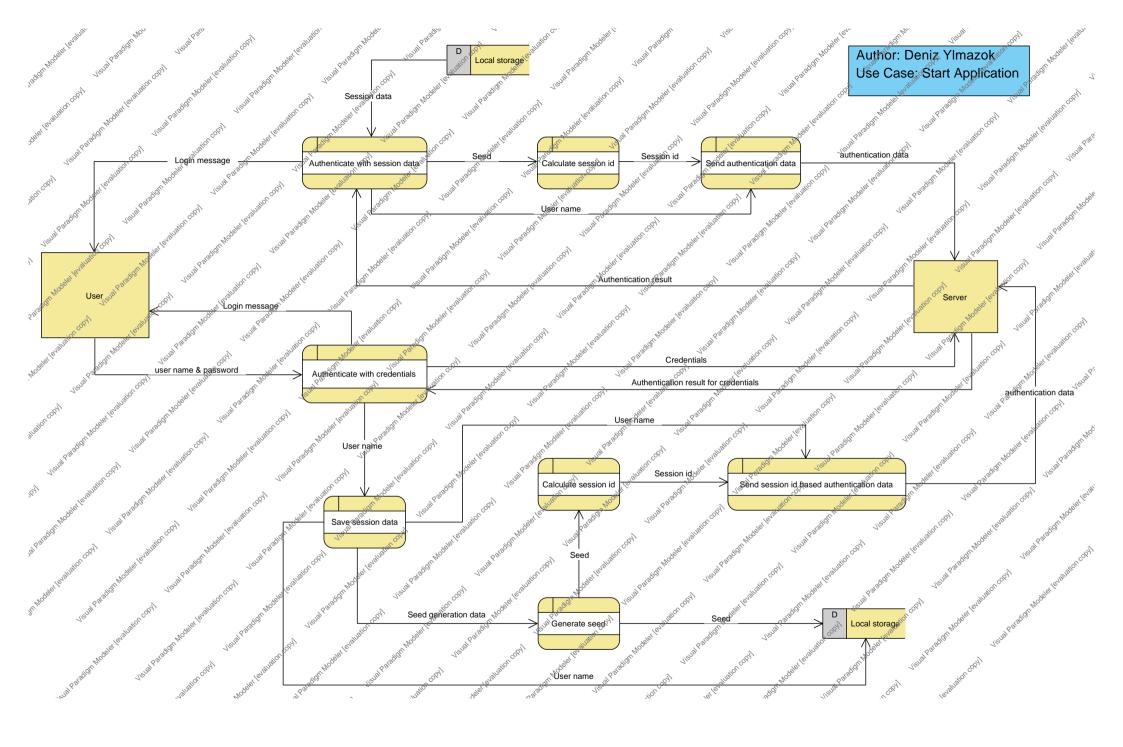
All functions' return type and arguments are excluded for saving space. To see them in detail, please check the class diagram and interface definitions section. Overridden functions given with their arguments.

UIManager.hide() and UImanager.receiveEvent() are not included in this chart because they will be triggered by unexpected behaviours of the user. That is why they are rarely executed. Also, developer will benefit from these functions by implementing them according to his/her needs.

View Tasks from Menu is merged with Manage Notes.

Add Fast Note from Shortcut and View Tasks from Shortcut are merged to Manage Fast Notes.





Powered By Visual Paradigm Community Edition 😵

Saving Session Data do / Save seed and username to local storage