**Android Task Monitoring**

**Task of Use Cases**

**الاسم:**

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**المجموعة**: 2

**السكشن:** 2

**الفرقة الثانية كلية حاسبات معلومات مادة تحليل وتصميم النظم**

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| Priority: High | ID: UC-1 | Use case name: Purchase the program | |
| Actor: The user | | | |
| Description: purchasing(buying) the android task monitoring from play store before download it,  Because it’s a paid application. | | | |
| Trigger: When the user click on(Buy bottom) for our application on play store.  Type: External | | | |
| Preconditions:  (1) Having a bank account.  (2) Having a visa card.  (3) Having Google play account. | | | |
| Information for Steps:  🡸app name  🡺message of app’s cost  🡸the user’s approval | **Normal Course:**  (1) The user open play store then search for our app  (2) Click buy  (3) The system send him message (50$) for downloading.  (4) The user agree for this message (alternative course 1).  (5) Have enough money in the visa for downloading.  (6) Purchasing process is done. | | |
| 🡺warning message. | **Alternative Courses:**  (Branch from step 4)  1- if The money in visa isn’t enough for downloading.  2-The system will send a message for the user “Money isn’t enough, use another visa”. | | |
| Post conditions:  (1) program is already downloaded.  (2) System will not take any other fees. | | | |
| Exceptions:  (Branch form step 4)  1-Visa is invalid  2-The system send to the user “ Visa is invalid” | | | |
| Destination | **Outputs** | **Source** | **Summary Inputs** |
| User  User | 1- message of app’s cost  2-Warning message | User  User | 1-App name.  2-The user’s approval. |

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| Priority: High | ID: UC-2 | Use case name: Register | |
| Actor: The user | | | |
| Description: The user regists in our app and make an account. | | | |
| Trigger: When the user sign in or sign up.  Type: External | | | |
| Preconditions:  (1)The user already downloaded the app  (2) The mobile should be connected to the internet | | | |
| Information for Steps:  🡺Welcome message  🡸The user approves for creating an account  🡺Personal form  🡸 User personal information. | **Normal Course:**  (1)The system will send welcome message to the user.  (2)The User chooses sign up (alternative course)  (3)The user press on create an account  (4)The system shows the register personal form.  (5)The user fills the form  (6)The user clicks on “create” | | |
| 🡸User account | **Alternative Courses:**  (Branch from step 2)  1-the user sign up with Facebook account or Google account.  2-The account is created. | | |
| Post conditions:  1-Account is created  2-The user should full the list. | | | |
| Exceptions:  (Branch from step 2)  1-ther user click sign in without having an account.  2-System sends him a message “this account isn’t exist sign up or exit”. | | | |
| Destination | **Outputs** | **Source** | **Summary Inputs** |
| User  User | 1-Personal message.  2-Personal form. | User  User  User | 1-The user approves for creating an account.  2- User personal information.  3-User account. |

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| Priority: High | ID: UC-3 | Use case name: Title & subtitle | |
| Actor: The system and the user. | | | |
| Description:  -System displays main title and subtitle lists to the user.  -The user wants to add new title and subtitle list and write his tasks. | | | |
| Trigger: When the user opens the app after creating an account, see the main title and subtitle lists that has already exist in the app and adding a new tittle or subtitle list if he wants.  Type :External | | | |
| Preconditions:  1) The user has an account.  2) The mobile should be connected to the internet.  3) Open (share location mood) | | | |
| Information for Steps:  🡺title and subtitle lists  🡸the user desired list  🡺subtitle lists of studying  🡺 sub-lists of study stream  🡺chats sub-lists  🡺 ready streams  🡸desired stream  🡺 ready streams  🡸desired stream  🡺 meetings sub-lists  🡺current and create new buttons  🡺current and create new buttons  🡺 the sub-lists of “Me”  🡺Default and customize buttons  🡺Time and applications buttons  🡺 the sub-lists of teams  🡺 the sub-lists of achievements | **Normal Course:**  1)When user open the app, the system displays main titles and subtitles list( Studying ,teams, achievements)  2)when the user click on his desired title list**(Alter.1)**  **2a- If the user clicks on “Studying”**  -The system will display the sub-lists(Study stream ,Me )  **2.a.1-**The user clicks on “Study stream”  - The system will display the sub-lists of study stream(Chats,  Meetings)  **2.a.1.1 -if he chooses chats**  -the system will display chats sub-lists(universal, local, linked  Accounts.  **2.a.1.1.1-if the user chooses universal**  -the system will displays ready streams  -the user chooses desired stream  **2.a.1.1.2-if the user chooses local**  -the system will displays ready streams  -the user chooses desired stream  **2.a.1.1.3-if the user chooses linked accounts**  **2.a.1.2 -if he chooses meetings**  -the system will display meetings sub-lists(universal ,local, linked accounts)  **2.a.1.2.1-if the user chooses universal**  -System displays two bottoms(current , create new)  **2.a.1.2.2-if the user chooses local**  -System displays two bottoms(current , create new)  **2.a.1.2.3-if the user chooses linked accounts**  -System displays two bottoms(current , create new)  **2.a.2-**The user clicks on “Me”  - The system will display the sub-lists of “Me”(recommended  Courses , Pomodoro button , focus button)  **2.a.2.1 -if he chooses** **recommended courses**  **2.a.2.2 -if he chooses pomodoro button**  -The system will displays two buttons(Default, Customize)  **2.a.2.3 -if he chooses Focus button**  -The system will displays two Lists (time ,applications)  **2b- If the user clicks on “Teams”**  -The system will display the sub-lists of teams (Take notes during meetings (AI assistant**,** Link a group of people with each other (Group) and make them available to put appointments they have together  **2c-If the user chooses “Achievements list”**  -The system will display the sub-lists(Daily, weekly, monthly)  Look the next use case(US-4) | | |
| 🡸customized list  🡺 Save the new title list | **Alternative Courses:**  **Branch from step 2**  1)If the user wants to create new title list  2) the user presses on ”other” button.  3)Then creates his customize title list  4) press save button. | | |
| Post conditions:  1)The user created his title and subtitle lists  2)The use set reminder for his tasks. | | | |
| Exceptions:  The user has a maximum of 3 options to add title lists by himself on the app, so the option "Other…" won't be enabled to use.  1. If the user already added 3 new title lists on the app and wants to add again it won't work and a list will be shown to the user telling him *"You have used the maximum number of adding new title-lists on the app. delete one of them if you want to add another title-list or use the Application’s"*  a . If he chooses "*delete*" the system will show the new 3 title-lists that the user added and delete one of them.  b. if he pressed *“use the Application”* the system will open the “home page” | | | |
| Destination | **Outputs** | **Source** | **Summary Inputs** |
| User  User  User  User  User  User  User  User  User  User  User  User  Database | 1)title and subtitle lists  2) subtitle lists of studying  3) sub-lists of study stream  4)chats sub-lists  5) ready streams  6) meetings sub-lists  7) current and create new bottoms  8) the sub-lists of “Me”  9) Normal and customizebottoms  10)Time and applications bottoms  11) the sub-lists of teams  12)the sub-lists of achievements  13) Save the new title list | User  User  User | 1) the user desired list  2) desired stream  3) customized list |

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| Priority: High | ID: UC-4 | Use case name: Achievements | |
| Actor: User | | | |
| Description: In this use case the user see how to deal with one of the main lists which is(achievements list)and its inner subtitles lists, know how to add a new task in subtitle list or adding another subtitle list. | | | |
| Trigger: The user wants to add a task to the achievements list  Type: External | | | |
| Preconditions:  The user must have an account and already signed in. | | | |
| Information for Steps:    🡺Main Lists  🡸the user choose    🡺Sub-lists of daily list  🡸 the user choose Subtitles  🡸 new task button  🡸data of tasks    🡺message of reminder  🡸user’s reminder approval  🡺time schedule from system  🡺 Sub-lists of weekly list  🡸 the user choose Subtitles  🡸 new task button  🡸data of tasks  🡺message of reminder  🡸user’s reminder approval  🡺time schedule from system  🡺 Sub-lists of yearly list  🡸 the user choose Subtitles  🡸 new task button  🡸data of tasks  🡺message of reminder  🡸user’s reminder approval  🡺time schedule from system | **Normal Course:**  1- The user opens the achievements list.  2-The system displays the main subtitles of achievements list(daily ,weekly ,monthly)(Alter.1)  3- The user chooses the desired subtitle.  **3a-If the user chooses daily**  -The system displays the subtitles (Tasks, Dairy, Shopping, Sports time, Break time, or Medicine)  -The user chooses the desired subtitle to add the task in **(Alter. 1)**  - press on the button *new task* to add a new one.  - After completing the writing, the user should then press on *"save* *button"* to save the task.  -Then the system asks the user if he wants to set a reminder or not  -The user wants to add a reminder  -The system gives him a time schedule to set the time that he will be reminded.  - then press *"OK"* to set the time.  - then the system returns the user to the *"Achievements List "*.  **3b-If the user chooses weekly**  -The system displays the subtitles (Tasks, Shopping, Meetings, or Therapeutic sessions)  -The user chooses the desired subtitle to add the task in. **(Alter. 1)**  - press on the button *new task* to add a new one.  - After completing the writing, the user should then press on *"save* *button"* to save the task.  -The system asks the user if he wants to set a reminder or not  -The user wants to set a reminder  -The system gives him a time schedule to set the time that he will be reminded.  - then press *"OK"* to set the time.  - then the system returns the user to the *"Achievements List"*.  **3c-If the user chooses monthly**  -The system displays the subtitles (Tasks, Shopping, Meetings, Therapeutic sessions, or Fees)  -The user chooses the desired subtitle to add the task in **(Alter. 1)**  - press on button *"new task"* to add a new one.  - After completing the writing, the user should then press on *"save* *button"* to save the task.  -The system asks the user if he wants to set a reminder or not  -The user wants to add a reminder  -The system gives him a time schedule to set the time that he will be reminded.  - then press *"OK"* to set the time.  - then the system returns the user to the *"Achievements List"*.  -The user chooses other (Alter. 1). | | |
| 🡸 Other button  🡸 the user choose Subtitles and title  🡸 data of tasks  🡺message of reminder  🡸user’s reminder approval  🡺time schedule from system | **Alternative Courses:**  **-Branch from step 2,step 3a,b,c(for adding another sub-list and a new task in it)**  1. The user chooses other button.  2. The user adds the desired title and subtitles he wants.  3. press on button *"new task"* to add a new one.  4. After completing the writing, the user should then press on *"save* *button"* to save the task.  5. The system asks the user if he wants to set a reminder or not  6. The user wants to add a reminder  7. The system gives him a time schedule to set the time that he will be reminded.  8. then press *"OK"* to set the time. | | |
| Postconditions:  1. The tasks have been assigned.  2. The reminders have been set. | | | |
| Exceptions:  The user has a maximum of 3 options to add lists by himself on the same list, so the option "Others…" won't be enabled to use.  1. If the user already added 3 new lists on the same list and wants to add again it won't work and a list will be shown to the user telling him *"You have used the maximum number of adding new sub-lists on the same list… delete one of them if you want to add another sub-list or use the Application"*  A . If he chooses "*delete*" the system will show the new 3 sub-lists that the user added and delete one of them.  b. if he pressed *"use the Application"* the system will open the "home page" | | | |
| Destination | **Outputs** | **Source** | **Summary Inputs** |
| User  User  User  User  User  User | 1) Main Lists  2) Sub-lists of daily list  3) message of reminder  4) time schedule from system  5) Sub-lists of weekly list  6) Sub-lists of yearly list | User  User  User  User  User  System  User  User | 1)the user choose  2) the user choose Subtitles  3) new task button  4)data of tasks  5) user’s reminderapproval  6)Other button  7)the user choose Subtitles and title  8)data of tasks |

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| Priority: High | ID: UC-5 | Use case name: Reminder | |
| Actor: AI system | | | |
| Description: the process where the AI system will remind the user to do the tasks that haven’t been done yet. | | | |
| Trigger: When user sets reminder for his tasks then it’s the time to remind, AI system acts like the following steps.  Type: Temporary | | | |
| Preconditions:  -The user already sets his Title and subtitle list. | | | |
| Information for Steps:  🡺reminder message  🡸the user did the task  🡺encouraging message  🡺Market coins go to warehouse of the program | **Normal Course:**  1)AI assistant system sends a reminder message when the time of the task comes  2)If the user click on “Done” bottom(Alter.1)  - System will send an encourage message to the user.  - The user will get coins to buy themes from market. | | |
| 🡸 the user delays the task  🡺time schedule  🡸user selects time | **Alternative Courses:**  1)The user click on ”Remind me later”  -The AI system will appear a schedule contains time (hours, minutes, seconds)  -The user selects time which he would like the system to remind him. | | |
| Postconditions:  -The user’s coins will increase so he can buy new themes.  - Encourage messages will increase the user’s productivity. | | | |
| Exceptions:  3)When user cancels the task  - AI system will remove the task from list. | | | |
| Destination | **Outputs** | **Source** | **Summary Inputs** |
| User  User  Warehouse  User | 1) Reminder message  2)Encouraging message  3) Market coins go to warehouse of the program  4)Time schedule | User  User  User | 1) The user did the task  2) The user delays the task  3)User selects time |

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| Priority: High | ID: UC-6 | Use case name: Focus time | |
| Actor: The user | | | |
| Description: the user wants to specific some applications to close them & their notifications not to interrupt and can focus easily on his/her task. | | | |
| Trigger: the user wants to focus on his/her tasks and not to interrupt him/her so the system will close specific apps.  Type*: Temporal External* | | | |
| Preconditions:  1 – The user must have an account and signed in already.  2 – The user has important something that need to be focused on. | | | |
| Information for Steps:  Choosing study list  Displaying study list  Choosing Me list  Displaying Me list  Choosing focus time  Display time List  Displaying applications List Confirm process  Focus lock | **Normal Course:**  1 – The user opens the app.  2 – The user chooses study list from titles & subtitles.  3- The system displays the sub-lists of study list (Me – Study stream).  3 – the user chooses "Me list".  4- The system displays (Pomodoro Button – Recommended Courses – Focus time Button).  4 – The user presses on "Focus time" button.  5 – The system displays:  a. Default time List which is (for 5 hours). (Alter. 1)  b. Default Applications List (Facebook – Twitter – Instagram – TikTok - YouTube). (Alter. 2)  6 – the user presses confirm button.  7- the system closes default applications with default time. | | |
| Customized time  Customized applications | **Alternative Courses:**  1 – if user wants to add customized time, press "Customized" in time list then the system displays time schedule with hours and minutes then user adds time he wants. (Branch at step 5a)  2- If user wants to choose customized Applications, press "Customized" in Applications list then the system displays Applications List (all apps the phone has). | | |
| Postconditions:  1 – The customized apps will be closed during the customized time.  2 – The user won't receive any notification from these apps. | | | |
| Exceptions:  1 – The user needed to cancel the focus time during doing the task. | | | |
| Destination | **Outputs** | **Source** | **Summary Inputs** |
| The user  The user  The user  The user  The system of Android | 1. Displaying study list  2. Displaying Me list  3. Displaying time List  4. Displaying applications List  5. Focus lock | The user  The user  The user  The user  The user  The user | 1. Choosing study list  2. Choosing Me list  3. Choosing focus time  4. Confirm process  5. Customized time  6. customized applications |

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| Priority: High | ID: UC-7 | Use case name: Market | |
| Actor: the user | | | |
| Description: the user wants to buy new themes from the market by collected coins | | | |
| Trigger: the user needs to buy new themes to use them  Type: Temporal External | | | |
| Preconditions:  1 - the tasks have been done on the exact time.  2 - The mobile must be connected to the internet.  3 - the user must have coins to enable him to buy new themes. | | | |
| Information for Steps:  List of themes  Choose specific themes  Confirmation buying | **Normal Course:**  1- the user goes to the cart button.  2 - the app opens list to show available themes.  3 - press the desired theme that the user wants to buy.  4 - if coins are enough to buy the desired theme, it will be added to home page and available to be used. (Alternative i)  5 - app will show to the user the remaining coins of his account and will show message that ***“your shopping has been done successfully and the desired theme is added to your account ... hope to enjoy using our app!”*** | | |
| Ask whether to buy another theme  List of remaining themes  Choosing theme    Confirmation shopping    Press No  Cancel message  Cancellation | **Alternative Courses:**  (i):  1 - if coins are not enough to buy specific theme. (branch at step 4)  2 - the system show message to user ***"Do you want to buy another theme with enough coins?"***  2a - the user answers ***"yes"*** then system shows available themes again with their prices.  3a - the user chooses another theme with suitable coins he/she has in his/her cart.  4a - the user confirms his/her shopping.  5a - new theme will be added to home page of user`s account and ready to be used.  2b - the user answers ***"No"***.  3b - the system shows message ***" Do you want to cancel your shopping now! "***.  4b - if the user approved to cancel his/her shopping, the system terminates the use case. | | |
| Postconditions:  1 – the new theme will be added to the user’s account.  2 – the coins of user’s account will be decreased after buying new themes. | | | |
| Exceptions:  1 – the system has zero coins or account is still new and not used before.  2- the system will cancel shopping of the user. | | | |
| Destination | **Outputs** | **Source** | **Summary Inputs** |
| The user  The system  The user  The user  The user | 1- List of themes  2 - Confirmation buying  3- Ask whether to buy another theme  4 – List of remaining themes.  5 - Cancel message | the user  the user  the user  the user  the user | 1 – Choose specific themes.  2 –Choosing theme.    3 – Confirmation shopping.  4 - Press No  5 - Cancellation |

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| Priority: High | ID: UC-8 | Use case name: Logout | |
| Actor: the user | | | |
| Description: the user wants to logout from his/her account | | | |
| Trigger: the user wants to logout from his/her account  Type: External Temporal | | | |
| Preconditions:  1 - the user must have an account of app.  2- the user has already signed in the account.  3- the mobile must be connected the internet. | | | |
| Information for Steps:  Logout  Warning message  Approved to logout | **Normal Course:**  1 - the user presses the button ***"logout".***  2 - the system shows message ***"Are you sure to logout* from this app*?"***  3 - if the user press ***"yes"***.  4 - the system will logout the account. | | |
| Disapproved logout  Cancellation logout | **Alternative Courses:**  1 - The user presses ***"NO".*** (Branch at step 2).  2 **-** the system won’t logout and continue in the application usage. | | |
| Postconditions:  1 - the system will logout from the account.  2 - the sign in window will be shown again to re-login in the app. | | | |
| Exceptions:  1 - Mobile isn’t connected to the internet, the system won’t logout and continue in the application usage. | | | |
| Destination | **Outputs** | **Source** | **Summary Inputs** |
| The user  The system | 1 – Warning message  2 – cancellation logout | The user  The user  The user | 1 – Logout  2 – Approved to logout  3 – Disapproved to logout |