NAJING UNIVERSITY OF POST AND TELECOMMUNICATION.

(OVERSEAS COLLEGE).

SOFTWARE ENGINEERING COURSE.

PROJECT REQUIREMENT (TASK SCHEDULING NOTIFICATON APP).

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**INTRODUCTION.**

An android based application that is able to help users plan and schedule their tasks to do at a specific time and also being able to record users performed tasks. Example, A student will use this application to schedule his morning 8:am class and if he is able to attend the class, the application will record that history the the student can check the history.

**BASIC REQUIREMEMTS.**

* Set time to perform a task. (example: get up at 6am).
* Notify a user when time is due.
* Record user voice. (an encouraging speech).
* Plays speech or voice recorded at a set time. (voice plays 5 or 10 minutes before the task set time).
* Option to choose from weather task can be done.
* Record history of tasks accomplished.
* notify the user about current whether condition.
* Suggest couple of outfits based on current whether condition.
* Display or plays users accomplished tasks at a set time. (example, at bed time 10pm play number of tasks accomplished and those not accomplished during the day)
* Give possible suggestions to certain users, some healthier things that could be done at during a certain time of the day.

**DETAILES.**

* A user should be able to install the application on a mobile phone or a tablet, after opening the application there should be a calender to select the date and a digital timer to set the time. After there should be a blank sheet to write the specific task in, when this is done there should be a record button to record a voice then a save button to save the first task.
* Voice should be programmed to play 5minutes before task set time, after an alarm should play to notify whiles the alarm plays a message should display in the application showing the written task already typed by the user.
* There should be a drop down box or a page to give the user option of yes or not to choose from if a user can or already accomplished a particular task.
* During certain times of the day like mornings the application should display possible healthier activities that could be done like running drinking a glass of water or singing favorite songs in shower.
* During a particular season of the year the application should use APIs to get the weather temperature and programmed to suggest by displaying certain clothes that could be wear outside to the user.
* There should be another button to that takes users to a timer to set the “yay-box” timer. This users set the time it could be the bed time and this time the users accomplished and unaccomplished tasks should be displayed.

**FUNCTIONS DEFINITIONS.**

Basically the application should have a simple user interface with few functions or buttons to push, the app icon to open the application, first page that contains calender and a timer, a record button, a save button, a notification page to display messages, options page to confirm task, yes and no buttons , a clear button to delete previous tasks or notes not needed anymore.

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| Page ‘A’ | The calender to set the date for a specific task. |
| Page ‘B’ | A timer to set the time and a blank page or sheet to type in the specific task. |
| Button ‘A’ | A record button to get users voice or upload mp3 file instead. |
| Button ‘B’ | A save button to save the task notes or files and the date and time. |
| Page ‘C’ | The page to display the task not when it time. |
| Button ‘C’ and ‘D’ | Yes and no buttons which helps to accept to do a task to not do it. |
| Page ‘D’ | To record yes or no selected by a user. |
| Button ‘E’ | Clear button to delete old task files or notes. |
| Page ‘E’ | To display number of yes’s or no’s at a set time say bed time. |
| Page ‘F’ | To display temperature degree and suggest likely or possible outfit to wear. |

**BUGS AND RESOLVES.**

One possible problem that can occur is when a user set a past date or time, thus when the date or time is set minutes or days behind system date. Then the application’s save button shouldn’t and notify the user and clear everything to empty for the user to start scheduling again .

**USE-CASE DIAGRAM. 1 ‘SMOOTH WORK FLOW’**

**A**

SET DATE AND TIME FOR ALARM

**D**

**E**

**B**

GET NOTIFICATIONS AND MESSAGE DISPLAYS

**server**

GET WEATHER TEMPERATURE WITH APIs

**C**

**actor**

**APPENDIX.**

The application should be fully functionable with all its functions working and user friendly.