~ New Calendar App ~

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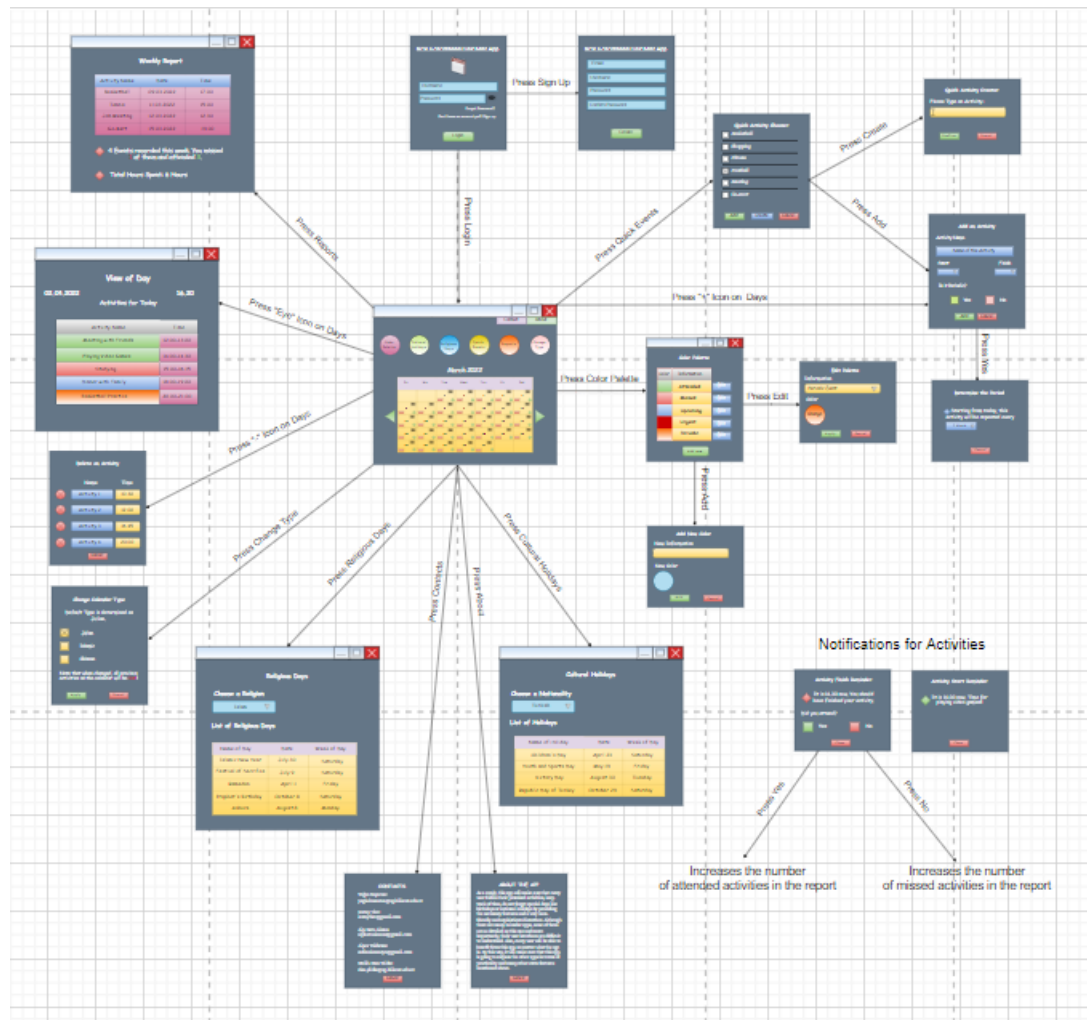| Criteria	TA/Grader	Instructor
Presentation		
Overall		

User-Interface Report

(Version 2.0)

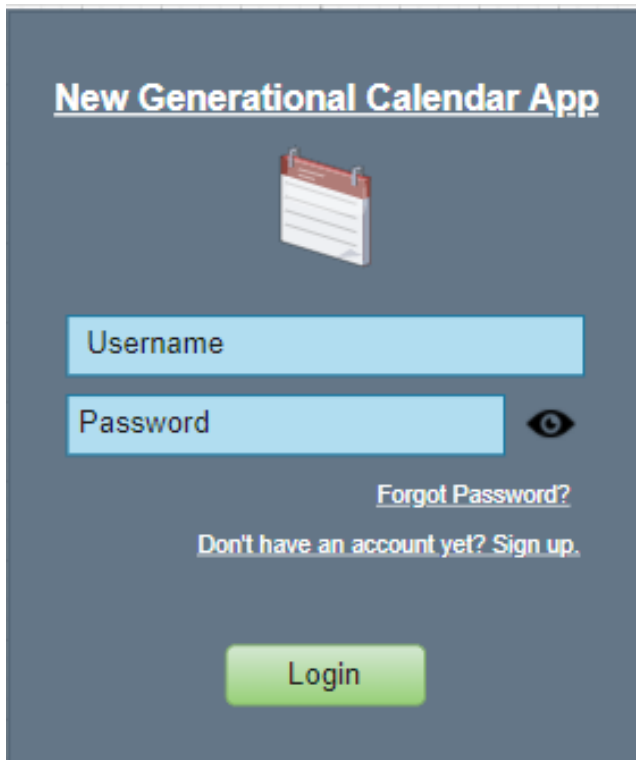**9 April 2022**

1. Introduction

Previously in the requirements report, the main features of this app, its specifications, and differences from other apps on the market were introduced. In this report, the general user interface of the app is going to be demonstrated. For clearance, each window will be handled separately and the function of each button is going to be explained thoroughly with examples. The user interface of this app was prepared carefully so that it appeals to more users and the critical purpose behind all of the planning was to make the app the most user-friendly as possible. Since it is a calendar app, all the facilitative features were added with specific colorizations to make the app most efficient. The following picture is the basic view of the app that will be implemented.
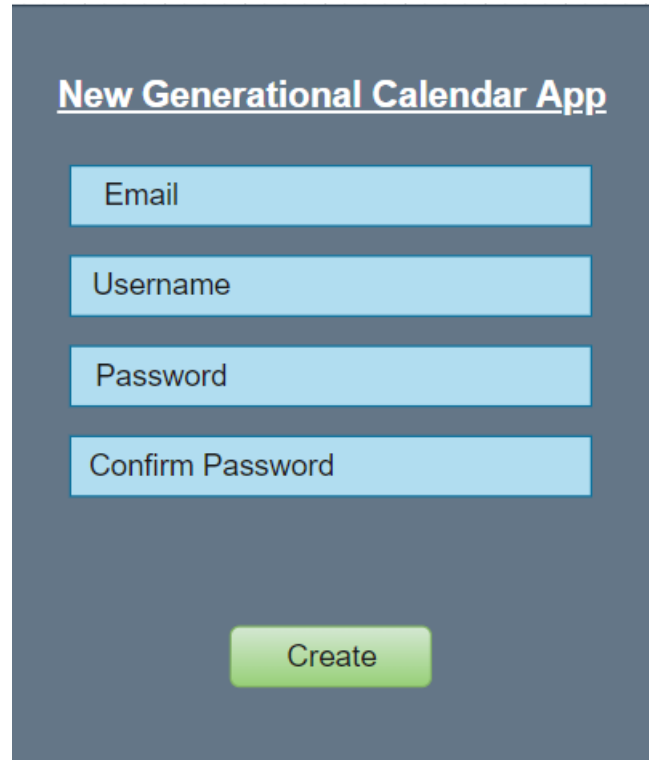
2. Storyboard

3. Details

3.1 Login Page

First of all, for the users to personalize their calendars, they need to create an account of their own. When the users enter the app, the first thing that appears is the screen on the left. If they already possess an account, then it is sufficient for them to enter their usernames and passwords to log in to the main page. With the small "eye" icon, they can also check whether they entered their passwords correctly or not. If they forget their password, they need to press the "Forgot Password?" icon to get a new password.

The other screen on the right is for the users who do not have an account. They are directed to this screen when they press the "Sign Up" button on the left screen. As in most of the other apps, they have to enter their mail, assign a password and determine their usernames. When they do this process successfully, a new account will be opened specifically matched with their emails. So, a second account with the same email cannot be opened. When pressed "Create", users are redirected to the screen on the left to enter their usernames and passwords.
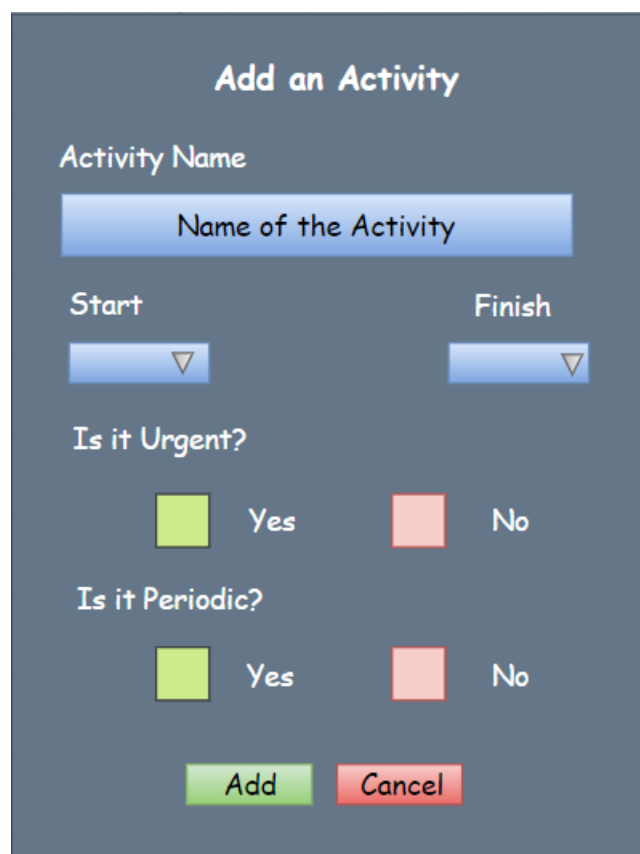
3.2 Main Page
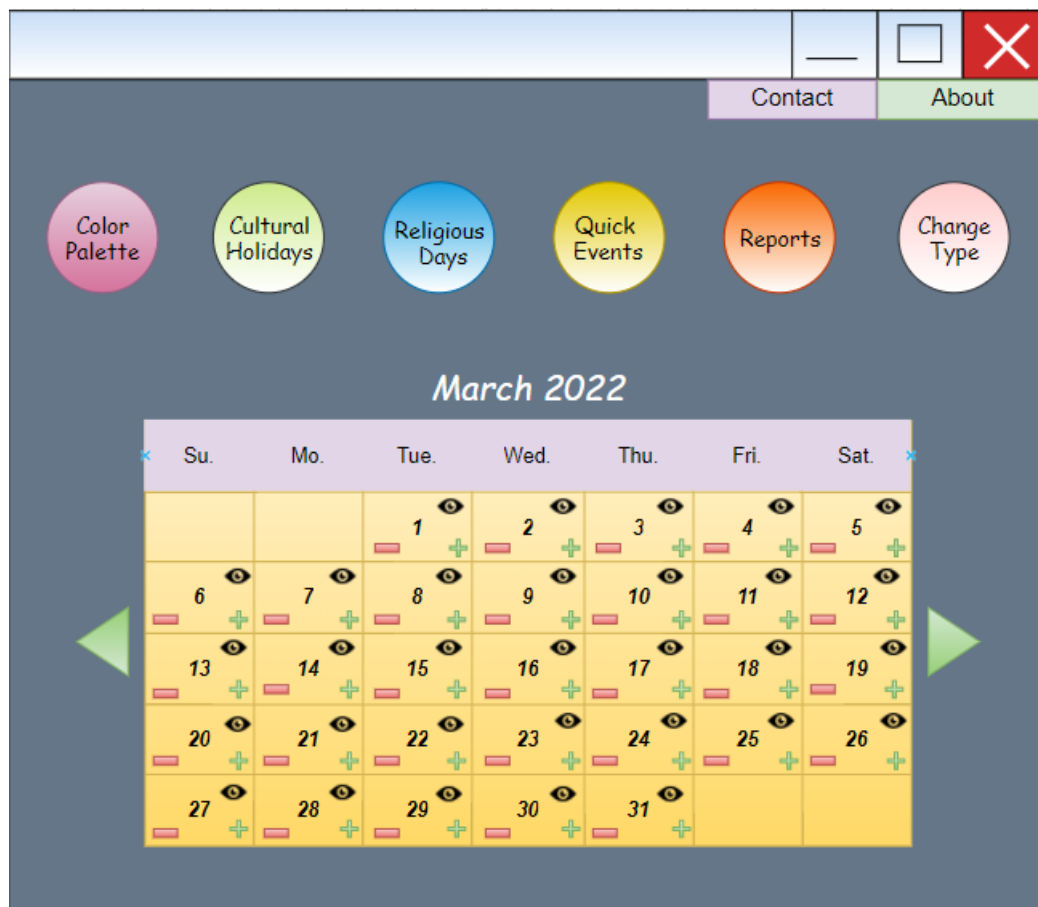
This is the main page of the app. When users press login, they automatically come across this screen. As it is a calendar app on the basis, the most apparent thing is the colored and elaborated calendar on the bottom middle of the page. The pages that are opened when pressed the buttons on the screen are explained in subsections. However, the functionalities of these buttons are reserved for this part.

To begin with, there are six main menus that users can choose from freely. Each of these buttons is colorized differently to make the app more user-friendly. As it can be understood from the names, the "Color Palette" button enables users to customize their colors accordingly to their tastes. Naturally, they can stick with the default colors given to them by the programmers. "Cultural Holidays" and "Religious Days" demonstrate the special days based on the religion and nationality of the users. "Quick Events" button helps users to add an activity quickly whereas the "Reports" button demonstrates the weekly activity log of the users. The final choice is the "Change Type" which changes the type of the calendar. Besides, there are "Contact" and "About" buttons that give the necessary information about the app and the developers if needed.

The calendar is also modified with specific buttons. The arrows on the right and the left of the screen enable the users to change the month. Also, they can go back to the previous and the following year, but the years will be limited by these. As it can be seen, the users can also see the week of the day they are currently in. Finally, each day has three specific buttons. With the "+" button, users can add a specific activity to that day. The "-" button opens a page where they can see their activities and remove an activity if they want. The last one is a button with an "eye" icon. From this, they can see the general schedule of their activities, their times, and more importantly the colorization based on the information each activity carries. This information can be "Attended", "Missed", "Upcoming", "Urgent" or "Periodic". These can be accessed from the "Color Palette" menu.
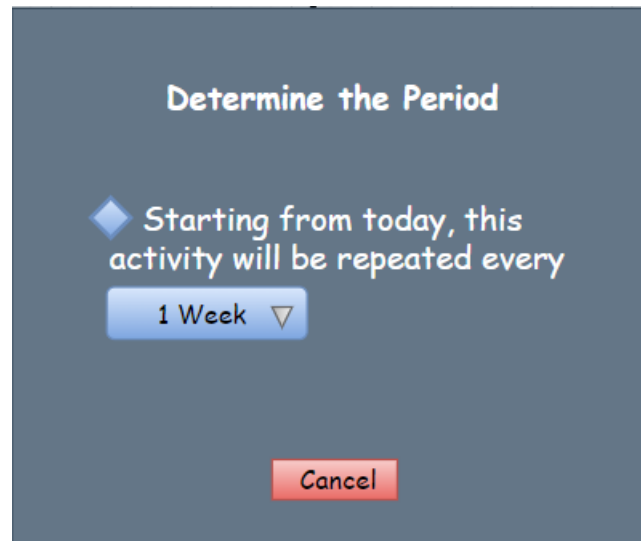
3.2.1 Activity Add Page

This is the page opened when the users press the "+" icon on the main page. Also in the "Quick Events" menu, when the users choose a quick event, they are again directed to this page but with the activity name already entered based on the activity they choose from "Quick Events". From this page, users can add an activity for that specific day. First of all, they need to enter the name of the activity manually. After that, they have to specify the starting and the ending hours of the activity. This is crucial because the notifications are sent based on these specifications. Another important thing is to determine whether the activity carries urgency or not. If it does, the users need to press "Yes" for "Is it Urgent?" so that the activity can be marked as urgent with
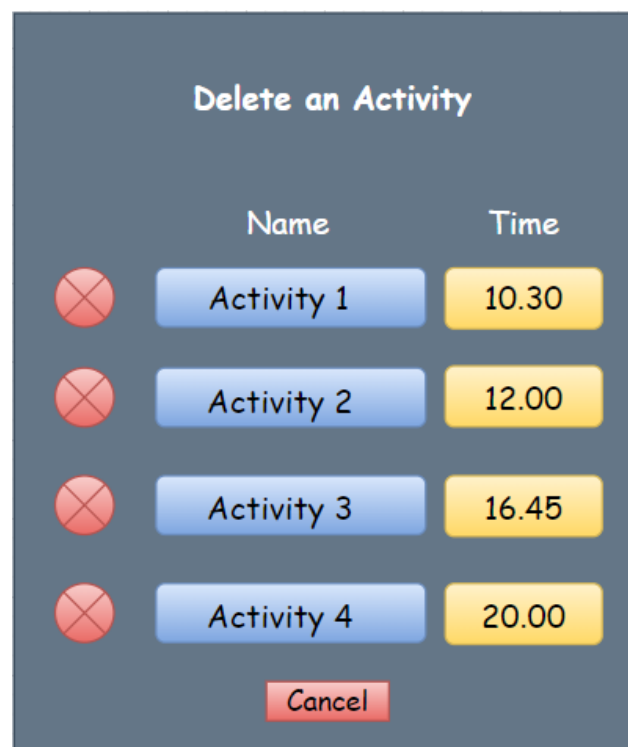
specific bold red color. The final requirement is to determine whether the activity is periodic or not. If the users have a repetitive activity like a basketball practice every week, they do not need to add it every time. If they press "Yes", the below screen is opened.

From this, they can choose the period of the activity. There will be options like "1 Week", "2 Weeks", "1 Month" and "2 Months". Of course, if the activity is not periodic, it is enough to press no. When they press the "Add" button, the activity will be added and can be seen from the view part on the main page.
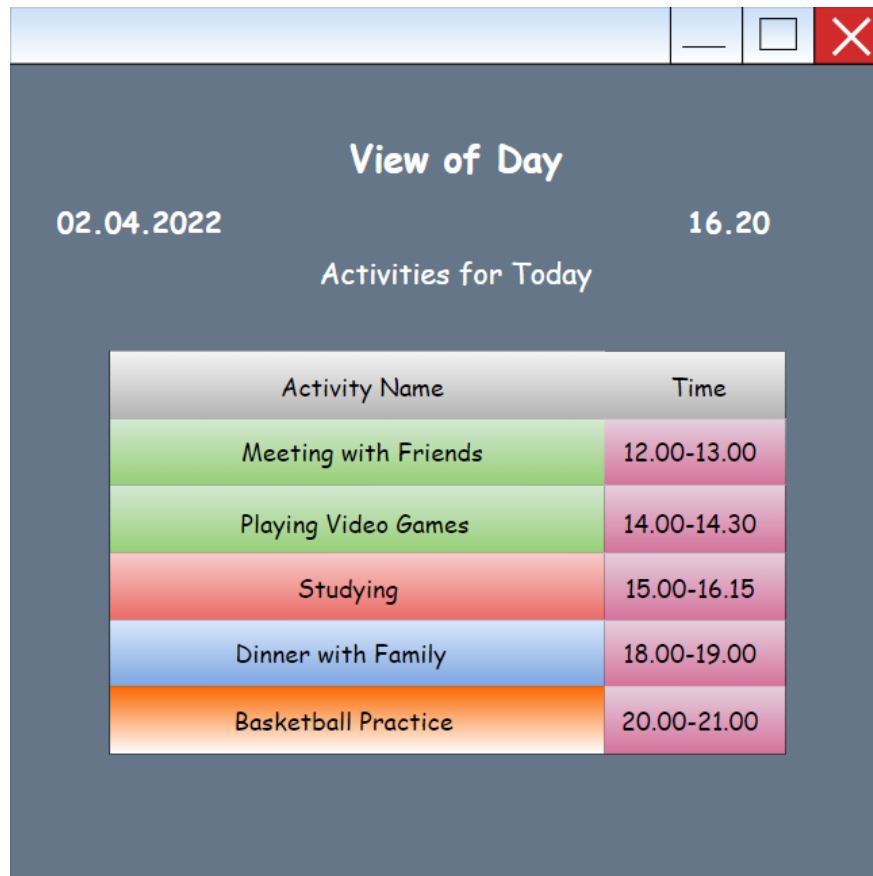
3.2.2 Activity Delete Page

This page is opened when the users press the "-" icon from the main page on one of the days. If they did not add any activity, then this page would appear with a message "No activities added." Otherwise, they can choose to remove an activity by pressing the red cross buttons on the left of the screen. When an activity is deleted, it is automatically updated on the view page.

3.2.3 Activity View Page

This is the activity view page opened when the users press the "eye" icon on top of each day in the calendar. From this screen, the users will be able to see the date, time, and general view of their activities. Moreover, the activities are colorized specifically. If chosen as urgent during the add process, the activity will appear in bold red. Similarly, repetitive ones appear orange. On the other hand, if none of these two were chosen, the activity appears as blue meaning that it is an "Upcoming" activity. When the finishing time of the activity comes, a specific notification will be sent. The users are going to mark whether they missed or attended the activity from this notification. If they mark missed, the activity will turn to normal red. If they mark as attended, it will turn green as the example above demonstrates all types except the urgent one.
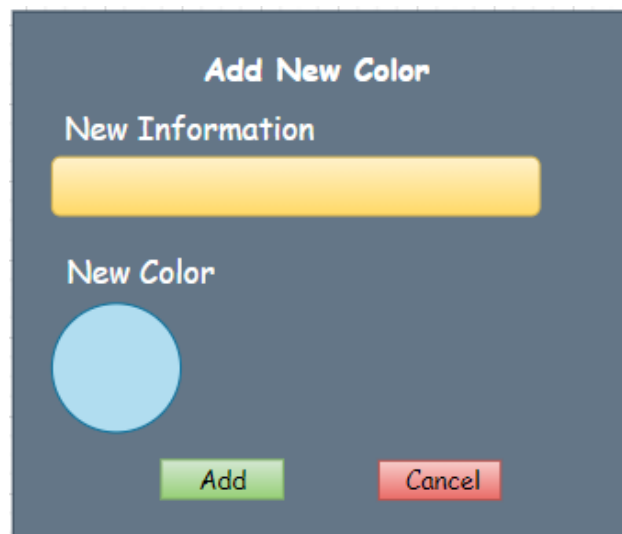
3.3 Color Palette Page
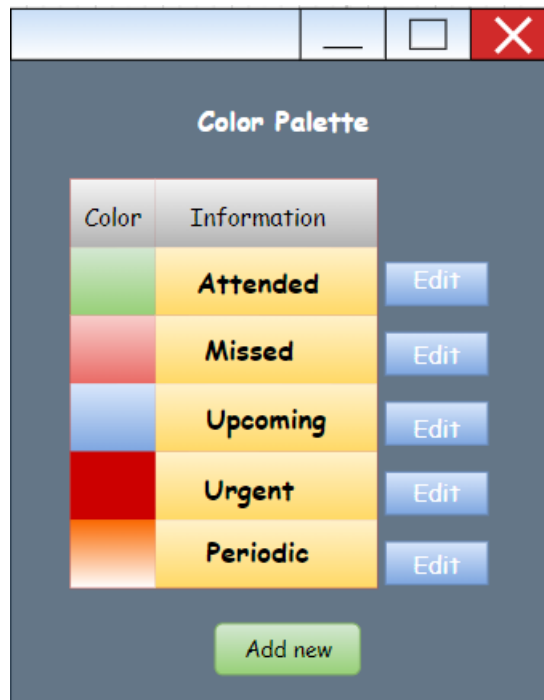
From the main menu, the users can access this window by pressing the "Color Palette" button. The main purpose of this page is to remind the users of the meaning of each color. The colors above are given as default by the programmers. If the users wish, they can edit these colors by pressing the "Edit" button next to each row. Also, there is another option as "Add new" that enables the users to add a new information type and a new color assigned to this information. Below are the pages for "Edit" and "Add new".
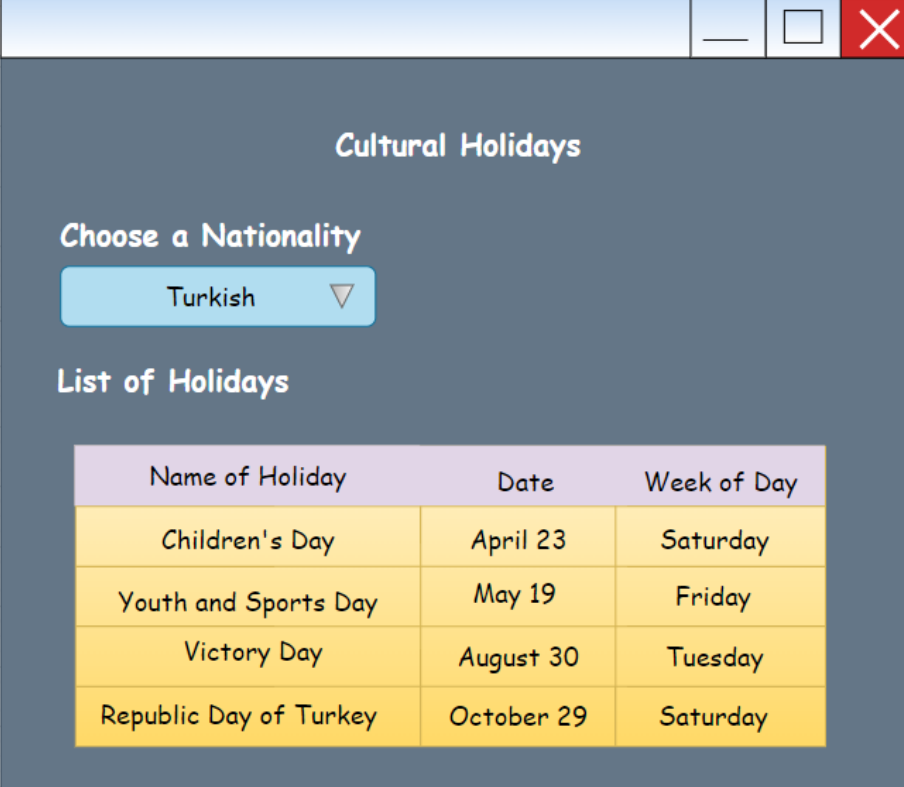
3.3.1 Color Palette Edit Page
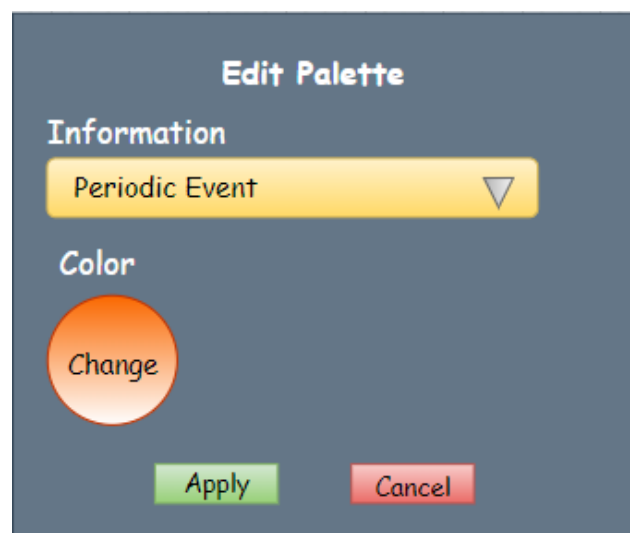
As stated, this window opens when the users press either one of the "Edit" buttons. The above example shows the editing of the "Periodic" events. From the "Information" part, the users can choose which type of event they are going to change with the help of a combo box. When they press "Color", a new color panel chooser is going to be opened available in the standard Java library. From this, the users will be able to edit their colorings, and pressing the "Apply" button will save the changes.

3.3.2 Color Palette Add Page

This window is almost identical to the "Edit" page with mild changes. This time, there is not a combo box for the "Information" part as it is going to be a new one. Other than that, the color part will be the same. When pressed "Add", the changes will be saved and displayed on the main page of "Color Palette".
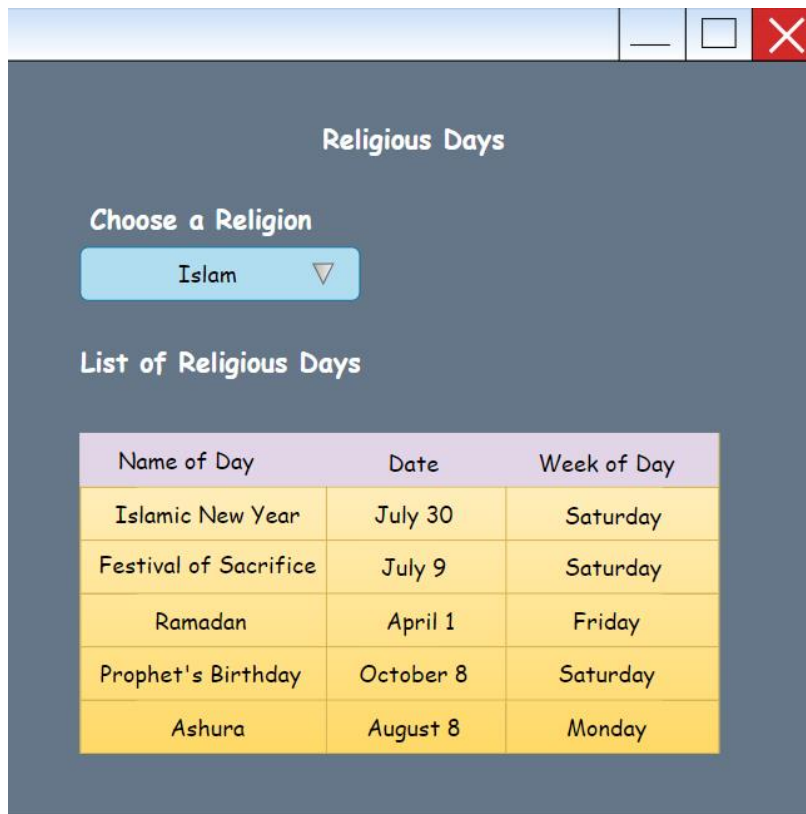
3.4 Cultural Holidays Page

Cultural Holidays

Choose a Nationality

| Turkish | ▽ |

List of Holidays

Name of Holiday	Date	Week of Day
Children's Day	April 23	Saturday
Youth and Sports Day	May 19	Friday
Victory Day	August 30	Tuesday
Republic Day of Turkey	October 29	Saturday

This window is one of the key elements of the app. Different than the other apps, this app is going to have both cultural and religious holidays already marked based on the choice of the users. This page is going to be opened when the users press "Cultural Holidays" from the main menu. First, they need to specify a nationality from the combo box. The options are going to be "Turkish", "German", "American", "English" and "Russian". After that, 5-10 special holidays for each nation will be displayed on the screen with dates and the day of the week. Also, these days will be marked on the calendar on the main page as well. In this way, the users will be able to keep track of nationwide holidays easily. In the picture above, examples for Turkish users are given.
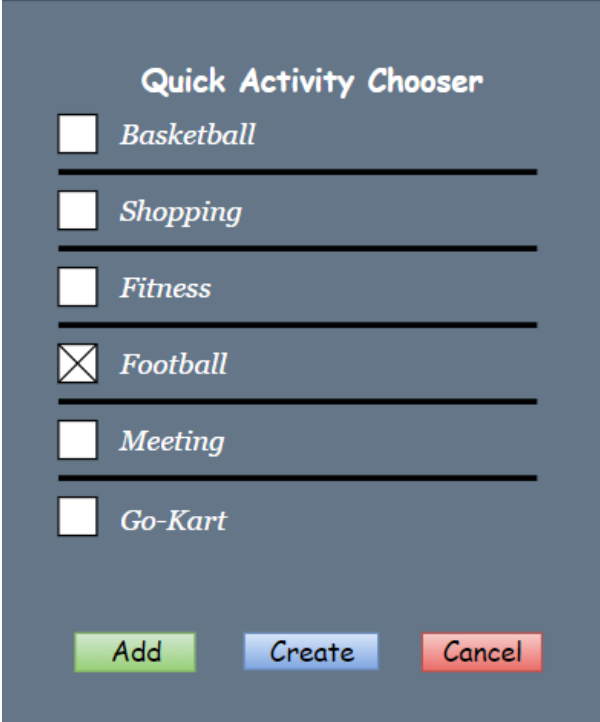
3.5 Religious Days Page

Again, this window resembles the "Cultural Holidays" page as they have similar traits. The users are directed to this page when they press the "Religious Days" button from the main menu. It is a fact that religion is a sensitive issue for many people. Therefore, the users may not choose a religion if they please. If then, a message saying "No Religion is Chosen" is going to appear instead of the table with specific days.

On the other hand, if the users want to choose a religion, they will be presented with three options from the combo box which are going to be "Islam", "Christianity" and "Judaism". Of course, there are many more religions, but it is impossible to address the needs of every user. So, the most popular ones are chosen for this app. When the users finally choose a religion, the sacred days are going to appear on the screen. To give an example, if Islam was chosen, the sacred days on the screen would appear. Similar to the cultural holidays, the day of the week will be demonstrated as well.

3.6 Quick Events Page

When users click the "Quick Events" button on the "Main Menu" the above page opens. This page's primary idea is to help users save time. For instance, instead of typing the activity name every time, users can select an activity and press the "Add" button so that the app will automatically go to the "Add Activity" page with the name determined. For this purpose, there are checkboxes for users to select their events. These events next to the checkboxes are chosen from the most popular activities around the world. Nevertheless, the users can create new events of their own by pressing the "Create" button. When users click this button, the app opens a new window called "Quick Activity Creator" below.
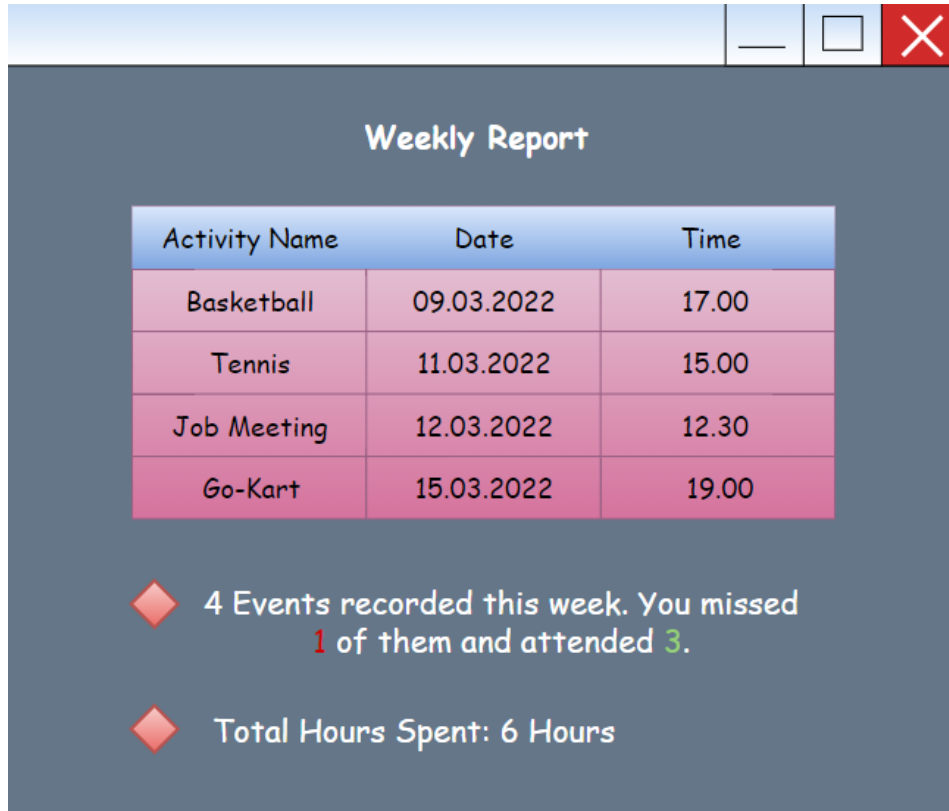
3.6.1 Quick Events Create Page

From this page, the users are expected to enter the name of the activity and it will automatically add the activity to the "Quick Events" page if the users press the "Confirm" button.

3.7 Reports Page

The function of this page is to give sufficient information to the users about their past events. This page is going to open when the users press the "Reports" button from the main page. They will be able to see the dates, names, and the times of their activities of the past week. In this way, it is planned for users to manage their activities better next time by assessing their situation every week.

Apart from this information, users will be able to see how many activities they attended and how many they missed. This information will be reached based on the inputs of the users from the notifications. They will mark either "Attended" or "Missed" as stated on the activity view page. The number of missed activities will be given in red and the number of attended ones will be given in green. Finally, the users will be able to see how many hours they spent on activities in these reports.

3.8 Calendar Type Page
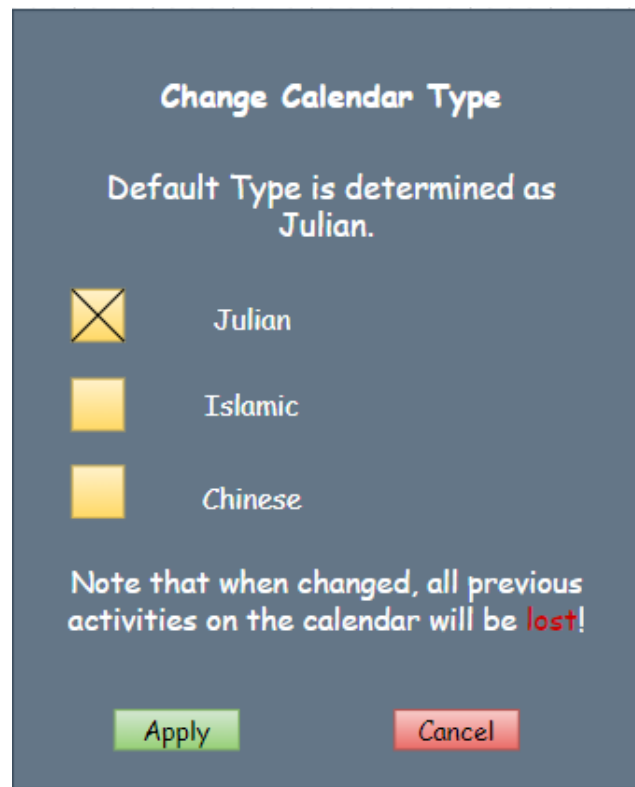
This window aims to address as many users as possible. It is fact that most of the world is now using the Julian calendar. Still, there are many other calendar types in the world. One of the most famous ones is the Islamic calendar. The other is the Chinese. The users will be able to choose from these three calendars. In this way, the users will be able to keep track of certain days much more easily. For instance, the sacred days and months in Islam like Ramadan vary each year in the Julian calendar. However, the users can keep track of these much more easily if they choose the "Islamic" option.

However, when the users change the calendar type, the previous progress is lost and the users need to add their activities again. This message is given to the users in bold and the "lost" part is specifically made red to capture the attention of the users. When pressed "Apply", the calendar type is changed.

3.9 Notifications

In this app, there is a notification system. Its aim is to remind users of their activities. With this feature, users can gain consistency, discipline, and follow their activities easily in their busy working lives. When the time comes for an activity "Activity Start Reminder" page will pop up and tell users that it is time for the activity by providing a simple description of the appropriate event. Next to this description, there is a green diamond shape in this window, this shape means there is still time to start/join the activity and finish it on time.

In the other window called "Activity Finish Reminder", the green diamond shape on the previous screen turns red meaning that the time for that activity is ended. Also, the description next to it will change, asking users a question. This question comes up with two checkboxes called "Yes" and "No". When users finish that activity on time and select "Yes", the number of attended activities will increase. On the other hand, if the users could not complete or join the activity on time and select "No", the number of missed activities will increase. This information will be presented in the "Reports" part of the app.

3.10 Contact and About

These pages can be accessed from the buttons present on the main page. The main purpose of these pages is to give the users a basic meaning of the functionality of the app and also present them the option to contact the developers if they face an issue.

4. Concerns

Some of the major concerns about user interface is about the changing of calendar type. Users will lose their progress if they decide to change which could make them uncomfortable. Also, the notification system requires users to keep their computers open so that the necessary notifications can be sent. One final issue is that it is not exactly clear which holidays or religious days will be included. Some users may get offended if their nationality or religion is excluded in the app. However, these problems can be solved with enough and creative feedbacks from the users.

5. Summary & Conclusions

As a result, this app will make sure that every user fulfills their promised activities, keep track of time, and does not forget special days like religious days or national holidays by providing the necessary features and a very user-friendly and sophisticated interface. For this purpose, the user interface is designed to meet the needs of users all around the world. Colorization carries great importance in the user interface as can be seen. The pages are designed to give a sense of comfort to the users and the functionality of each button can be understood without any problems. Therefore, the app has the potential to reach users from every religion and culture with its friendly user interface and various functions.

6. References

- Alder, Gaudenz. diagrams.net. 2000. JGraph Ltd. Accessed April 2, 2022.

< https://www.diagrams.net/ >