

Flaming Penguins Calendar Application

User Manual



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Overview:

The Flaming Penguins Calendar application is a calendar application that can keep you organized by allowing the user to add, edit, and delete events on the day of their choice, and view these events in a daily, weekly, or monthly view.

Singleton Design Pattern:

We used the singleton pattern to control the events data within two views. In essence, we created one singleton `ArrayList<fpEvent>` for daily view, and one for weekly view. This made the code so that we were not doing expensive SQLite data retrieval operations too frequently.

The Singleton arraylist is located at lines 20-29 in `WeeklyView.java`, and lines 22-27 for `DailyView.java`. The location to where these two classes are located is as follows:

```
Code ▸ app ▸ src ▸ main ▸ java ▸ com ▸  
example ▸ robcastle ▸ flamingcalendar
```

Testing Location:

Each member developed a test class. They test the `fpEvent` class (the class that holds our event data), and they also test our SQLite database class (called `DatabaseHelper`). The location of the tests is below:

```
Code ▸ app ▸ src ▸ androidTest ▸ java ▸ com ▸  
example ▸ robcastle ▸ flamingcalendar
```

Using the App:

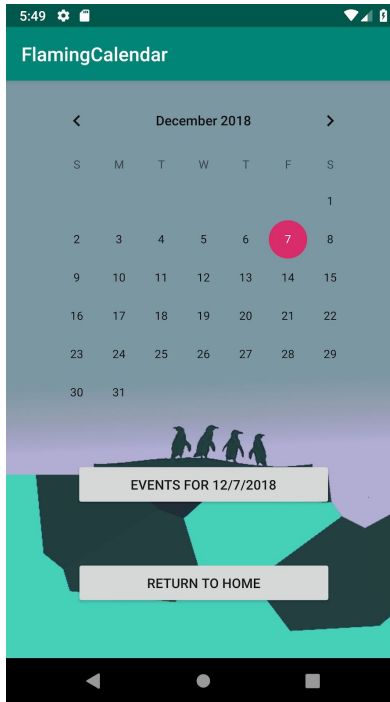
The application can be imported by first downloading the “Code” folder in the repository. When importing the project into Android Studio, select the “Code” folder as the folder to import. This should allow you to build the project. You can then run the application for the first time.

Upon running the app, the calendar will open to its home screen, as shown in figure 1. As seen in the image, the application opens up with the current day's date, as well as a welcome message that changes depending on the time of day the application is ran. From here, the user can click on any of the four buttons shown on the screen.

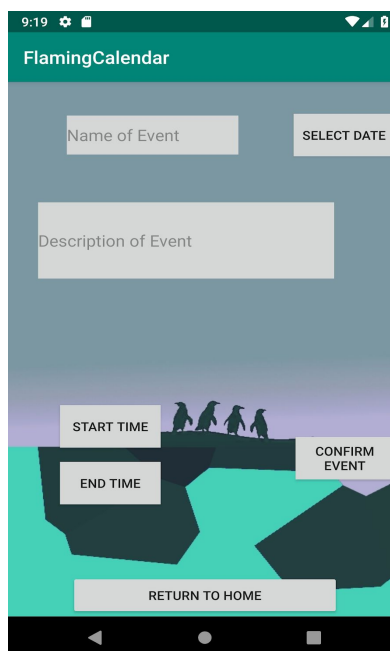


When the user clicks on the Open Monthly button, the application moves to a traditional calendar view, shown in the image below. As seen in the image, the calendar view opens up to the current day's date, highlighted in pink. From here

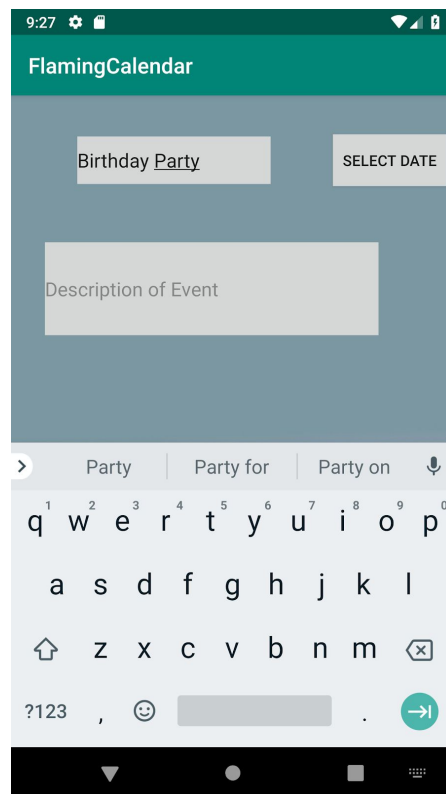
the user can scroll through the calendar upon which they can click on any date. Upon clicking on a date, the calendar will return to the home screen, where the user can click on the Add Event button to place an event in that day.



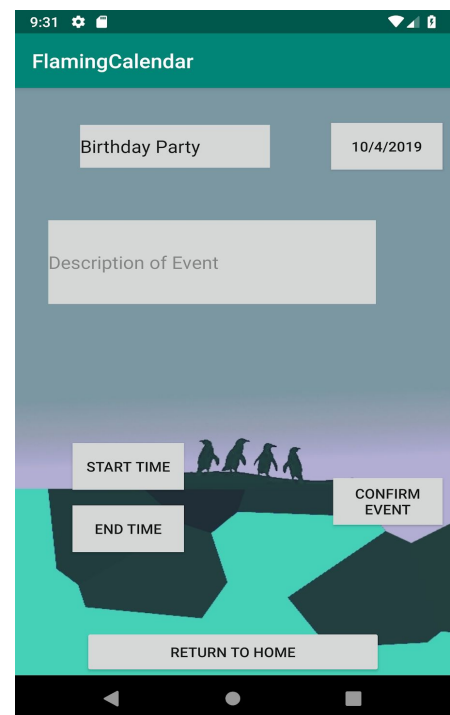
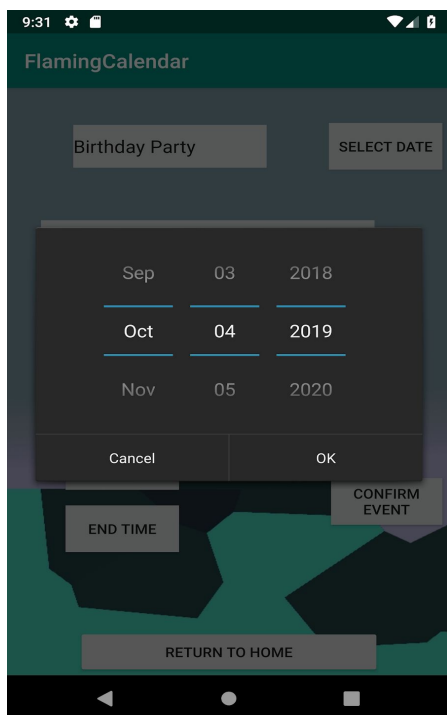
Add Event Button: When the user clicks on the Add Event button from the home screen, the application transfers to a new screen where they can input the details of the their custom event. This screen is shown in the image below.



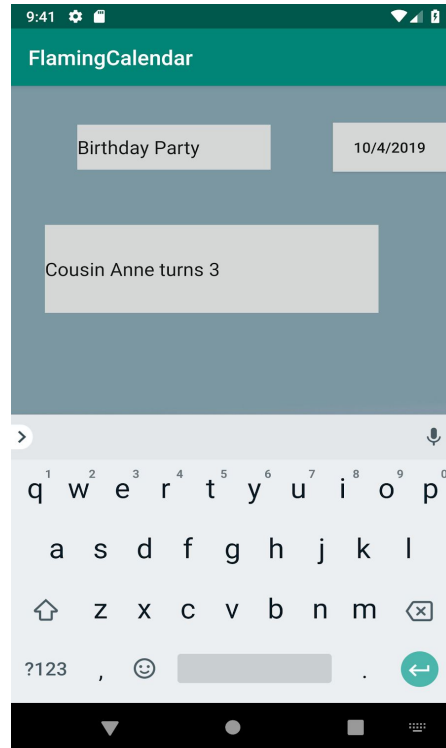
From here the user can enter a name for their event, for example: “Birthday Party”.



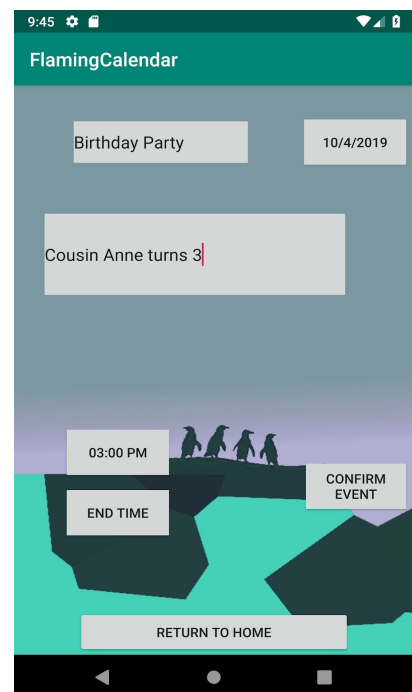
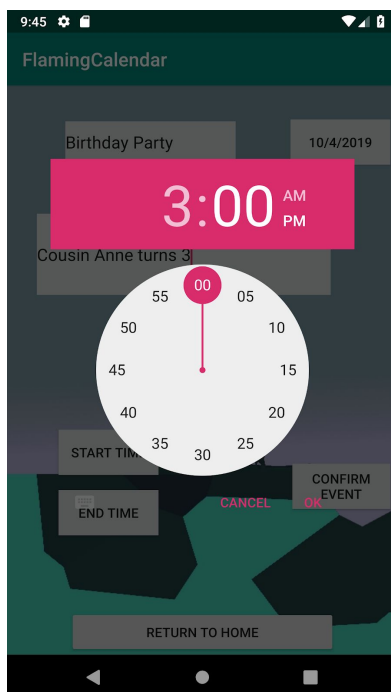
Then, they could select a date by clicking the select date button. Upon clicking this button, a date picking widget is pulled up, allowing the user to scroll to their desired event date. For this example we will select October 4, 2019.



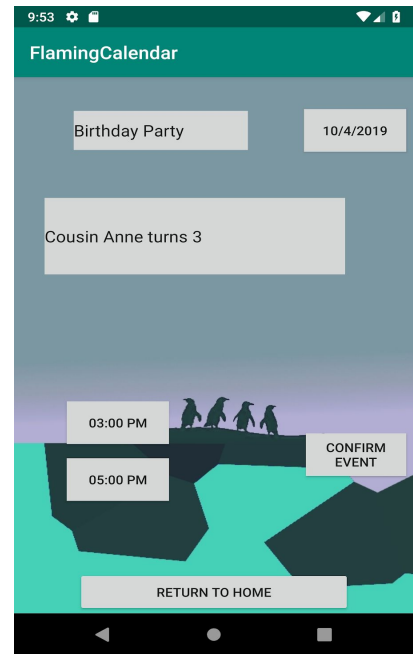
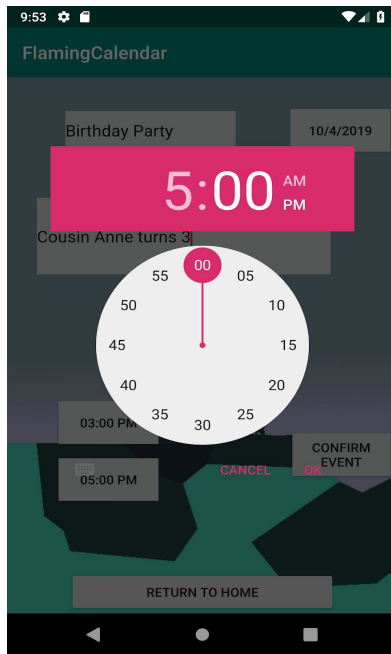
From there, the user can click on the Description of Event field and a similar prompt to the event name field will appear. This will allow the user to type in a brief description of the event in question. For this example, we will type: “Cousin Anne turns 3”.



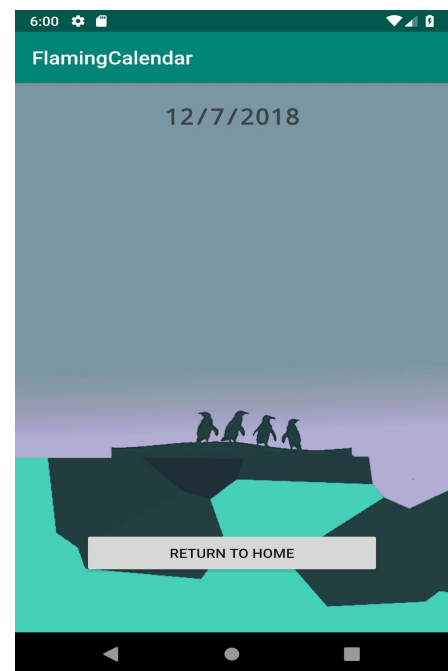
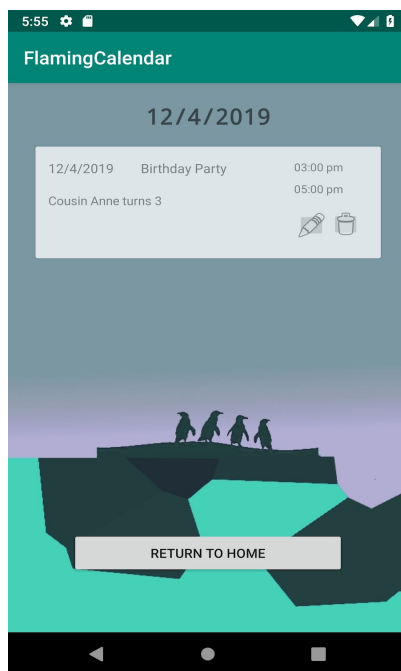
The next bit of information the user could wish to include, would be the start time of the event. Upon clicking the Start Time button, a clock widget will appear and allow the user to select their designated start time for their event. For this example, we will assume the party start at 3:00 pm.



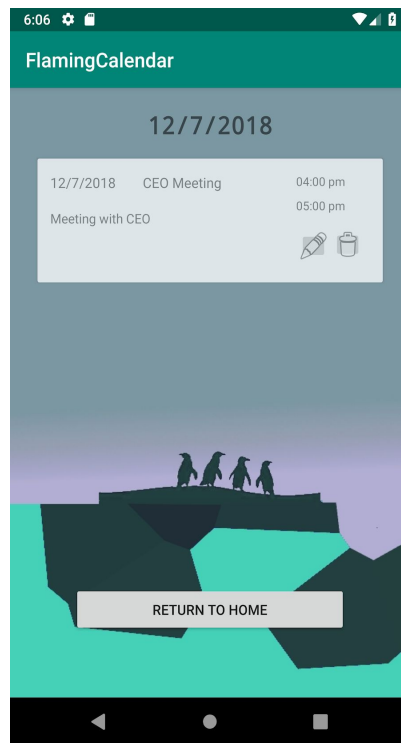
As you can see, the entered 3:00 pm is now in the start event button. From here the user can choose to place an end time for this event. This will work exactly as described above for Start Time button. For this example, the party will end at 5:00 pm. Clicking ok will place 5:00 pm in the end time box.



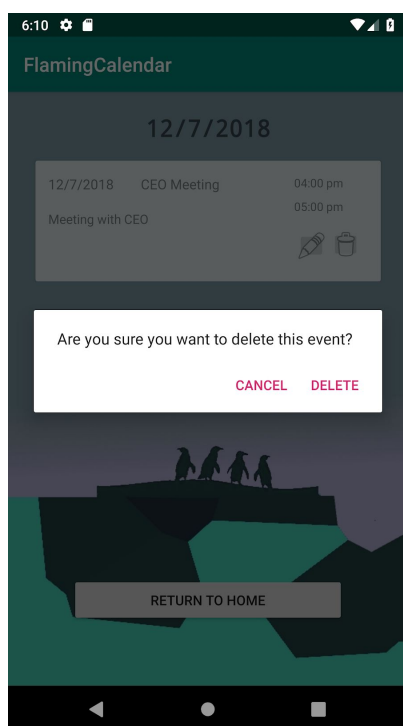
Now, clicking the Confirm Event Button, you can see that the event has been added to the Weekly View for December 4th, 2019. We then can return home and click on the open daily view from the homescreen. It will be blank because we added no events for December 7th, 2018, which is the day this tutorial was made.



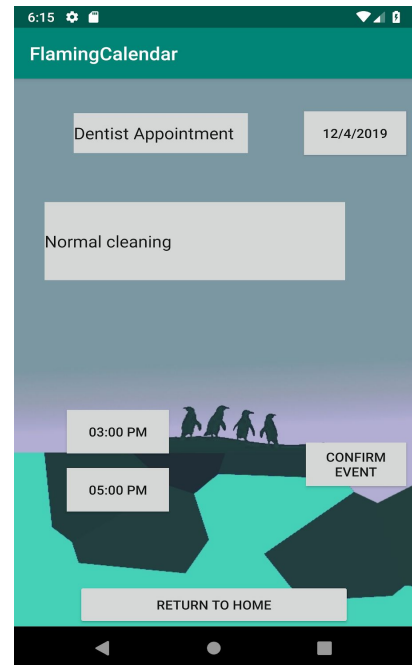
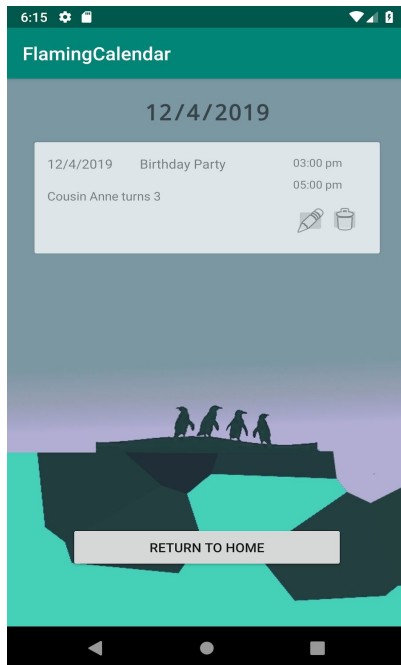
After going through the process of the Add Event Button again, but adding a “CEO meeting” for December 7th, 2018, the application will update the Daily View for that day.



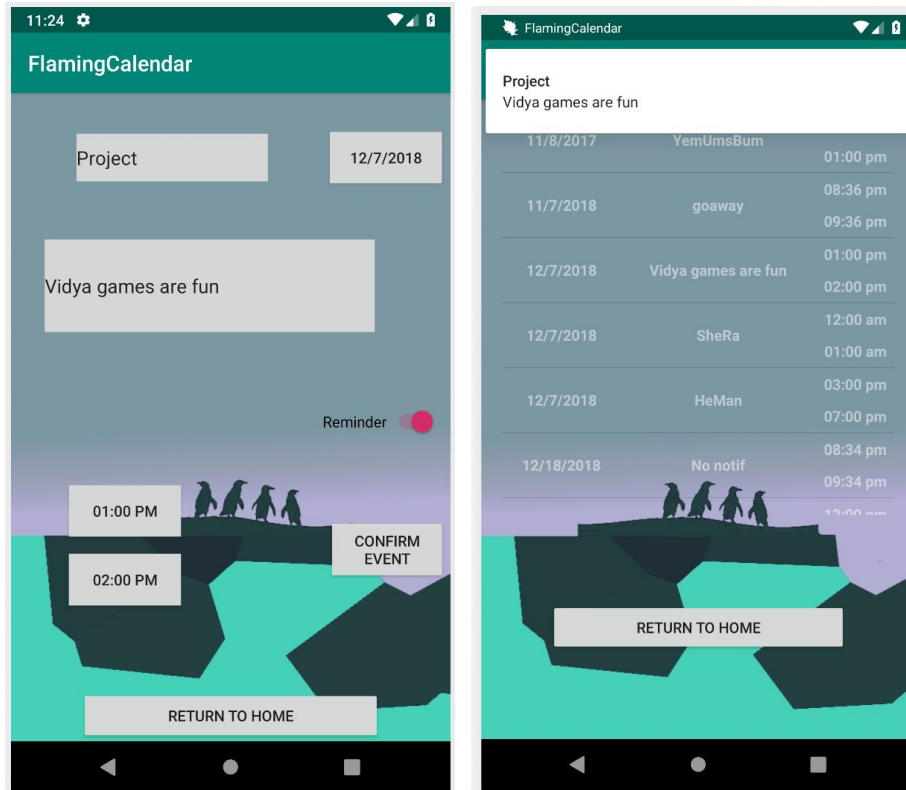
It is also possible to delete an event as well, just go to open daily and click on the trash can icon next to the event. A prompt will come up making sure you really wish to delete the event. If the user clicks ‘Ok’, the event will be removed.



An event can also be edited as well. Going back to the birthday party event we created on December 7th, 2018. Clicking on the pencil icon will take the user back to the add events page. Let's say the birthday party was cancelled, and you scheduled a dentist appointment in the same time slot on that day. Putting this information in the event and clicking confirm event will now reflect the changes in the event.



We have also added the *prototype* feature of push notifications. In add event, to have the application remind you of the event with a notification, simply click on the “Reminder” switch. Click “Confirm Event,” and you will receive a Toast message at the bottom informing you that, in 10 seconds, a push notification will appear describing the event. The images below illustrate this. Once again, this is a *prototype* feature that was not fully realized.



This concludes the manual. If you have questions, comments, suggestions or concerns, please do not hesitate to contact Flaming Penguins[©].