

## Iteration III

Trello Link: <https://trello.com/b/GXCvTyOf/4-amigos>

Web: <https://www.your4amigos.com/>

Git: <https://github.com/YzkGao/CSI-3471-team-project-4-amigos->

Team: 4 amigos

Members:

Yangzekun Gao, Jingke Shi, Zhengyan Hu, Maiqi Hou

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## Project Vision

Our team has developed an accounting software. Users can record their daily expenses and income. They can perform a series of operations on their records at the same time. This software contains the following functions.

### Functions:

- (1) Adding records: It gives user a way to add new records.
- (2) Viewing records: It allows users to view their records in a fixed time range. Users are able to select the time range they want. The application will generate a table to show the records. In addition, we will show some statistical data, such as total balance, total income, and total expenses.
- (3) Viewing by using filters: We allow users to minimize the table by adding some filters, such as which event or type they only want to view. Also, the statistical data will update.
- (4) Export: We allow users to export the table based on applied filters in a readable way to a certain file.
- (5) Delete: Users can delete records while they are viewing.

## Live demonstration link

<https://youtu.be/MFljhhbujxY>

## Use case videos link

Maiqi Hou:

Add Amount UC: <https://youtu.be/-FcQbs-SNkI>

Add Record UC: <https://youtu.be/v7eqGl19Z3Q>

Export file UC: <https://youtu.be/Exz4AfoOh5k>

Jingke Shi:

From main to add: <https://youtu.be/2AcD4SC5bjg>

From main to view: <https://youtu.be/9QpNjzcxNJM>

From add to main: [https://youtu.be/5tVMq\\_cZfxE](https://youtu.be/5tVMq_cZfxE)

Zhengyan Hu:

Show table: <https://youtu.be/tnjQuazOoMU>

event,type filter: <https://youtu.be/nLZwvveSXWQ>

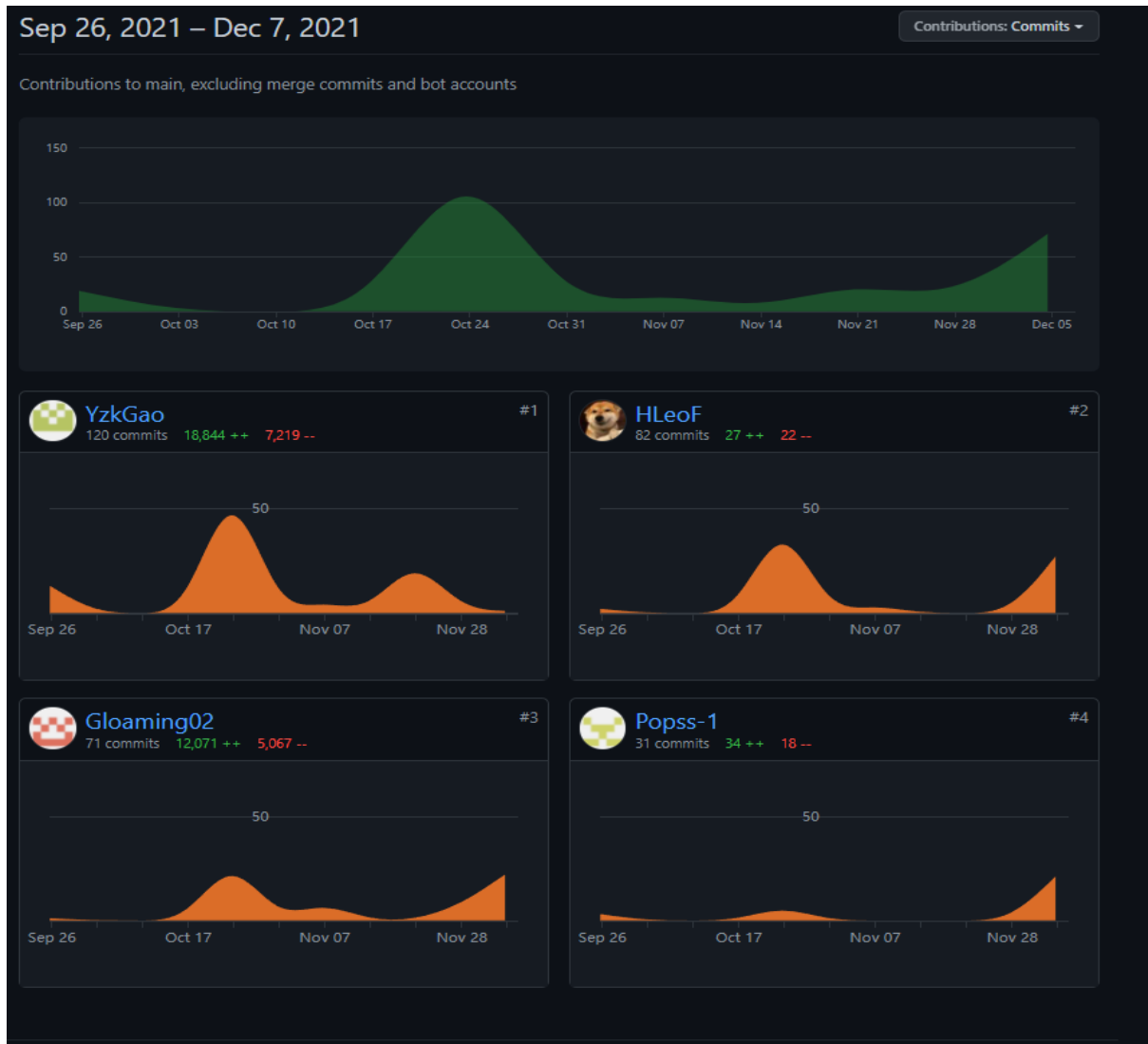
export file: [https://youtu.be/rf\\_jF3rtLqA](https://youtu.be/rf_jF3rtLqA)

Yangzekun Gao:

from view page back to home page: <https://youtu.be/wz3FtvLFZNC>

select a time range to view the recods: <https://youtu.be/UljaWMaM5Z0>

# Git Analysis



Total Commits: 304 so far

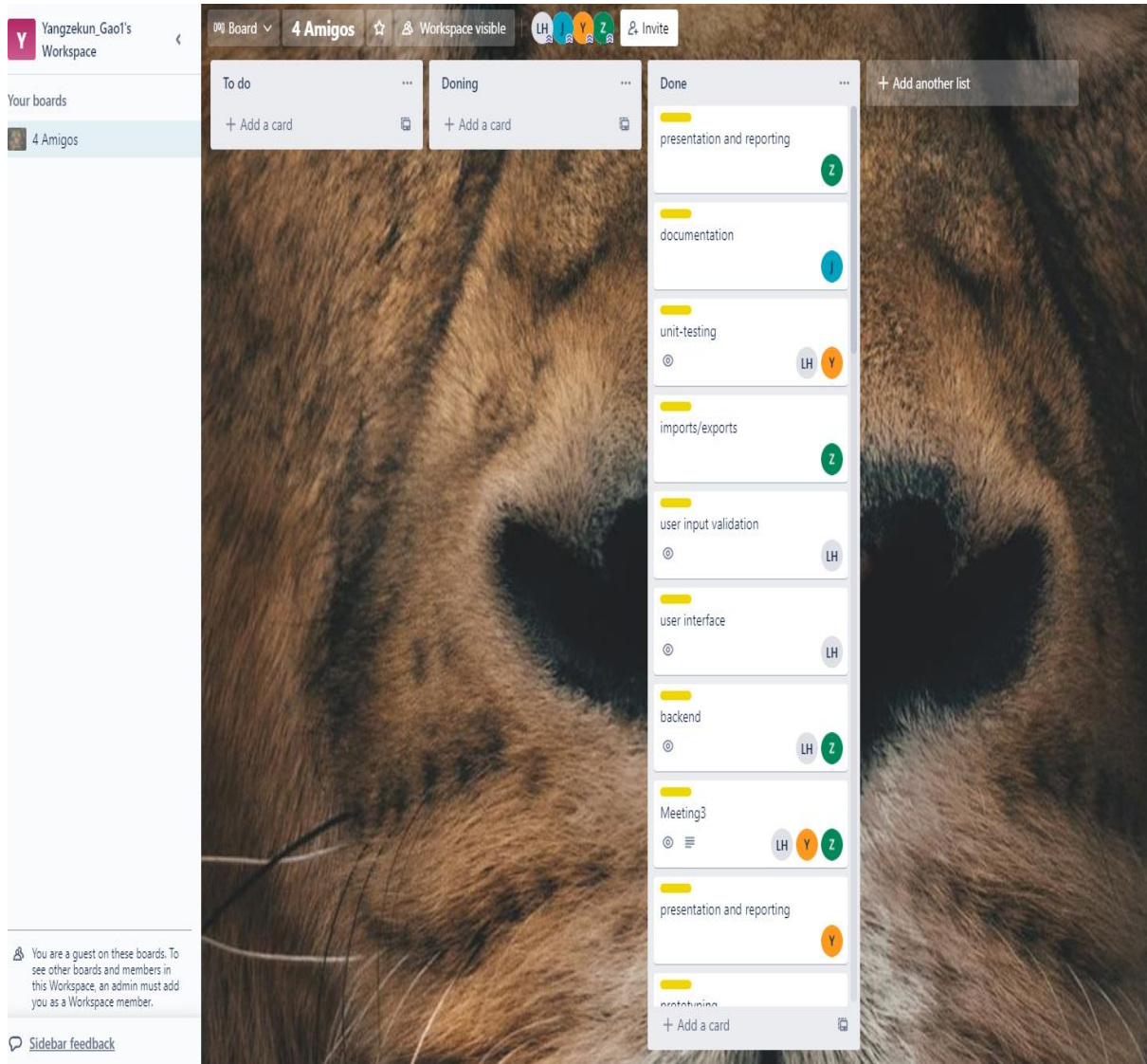
Yangzekun Gao: 120

Jingke Shi: 31

Zhengyan Hu: 71

Maiqi Hou: 82

# Trello

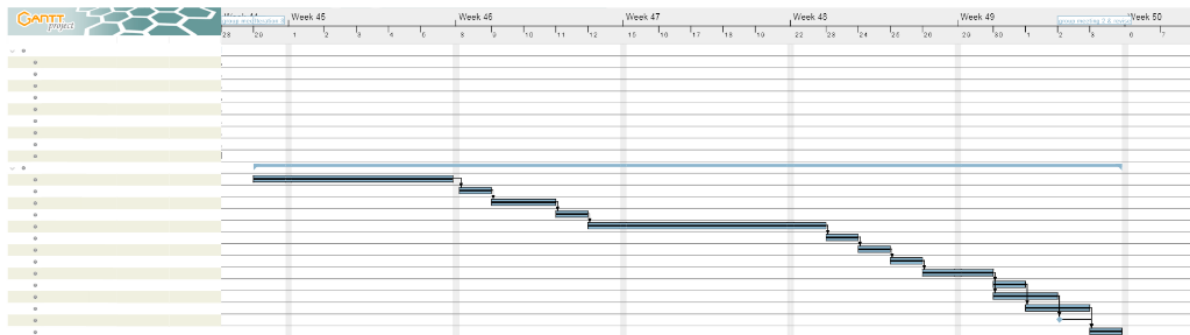


# Gantt

Iteration 3	2021/10/29	2021/12/3
code design	2021/10/29	2021/11/5
group meeting	2021/11/8	2021/11/8
User guide	2021/11/9	2021/11/10
test-doc & Junit	2021/11/11	2021/11/11
video of distinct use cases	2021/11/12	2021/11/22
git analysis	2021/11/23	2021/11/23
link issue tracking	2021/11/24	2021/11/24
reporting issue	2021/11/25	2021/11/25
code documentation	2021/11/26	2021/11/29
runnable as a Jar	2021/11/30	2021/11/30
time tracking	2021/11/30	2021/12/1
live documentation	2021/12/1	2021/12/2
group meeting 2 & revise	2021/12/2	2021/12/2
code quality	2021/12/3	2021/12/3

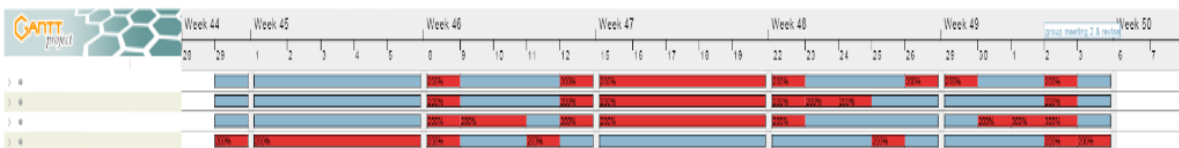
## Gantt Chart

4



## Resources Chart

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## Team 4 amigos Time Record

### Meetings:

Sunday, October 24, 2021 (5 PM – 7 PM)

Wednesday, October 27, 2021 (1:25 PM – 6 PM)

Friday, October 29, 2021(2:30 PM – 7Pm)

Friday, November 5, 2021(5:30 PM – 7Pm)

Monday, December 6, 2021(2:30 PM – 7Pm)

### Individual Hours:

Yangzekun Gao:  $10 + 9.25 + 5 + 25 = 49.25$  hrs.

Maiqi Hou:  $9 + 8.75 + 5 + 20 = 43.75$ hrs.

Jingke Shi:  $9 + 8.0 + 2 + 20.5 = 40.5$  hrs.

Zhengyan Hu:  $9 + 7.25 + 5 + 20 = 41.25$  hrs



# Issue Tracking

Issue	Found	Fixing	Done	Method
For the definition of classes, attribute, operation are not uniform				Meeting (Uniformed after discussion)
The operation process and design are not uniform (The button position is inconsistent, the frame size is inconsistent, and different ideas of function process and orders)				Meeting (Uniformed after discussion)
How to display the generate calendar				Creating a csv file in the the path of the jar executable file. Using it as a database.
How to save,generate and read the database				Creating a csv file. Using it as an intermediate to save the modified data.
How to store data when users add, delete a records.				Search online resource
How each operation page connects to other operation pages.				Declaring a variable on each page function to display its status. Thus, it can achieve the effect of each page interaction
How to solve when the user enters somes error messages.				Restricting users input on the input page(Only numbers and letters are accepted)
Reading data without comment records will report errors.				Calculating the length of the record and determine whether there are comments.

# Junit

Finished after 1.019 seconds

Runs: 5/5
Errors: 0
Failures: 0

amigos.accounting\_app.AppTest [Runner: JUnit 4] (0.871 s)

- testAdd (0.294 s)
- testRound (0.259 s)
- testMain (0.128 s)
- testView (0.173 s)
- testvalidDoulbe (0.013 s)

# User guide

## 1- Choose page

The first page you will see is main page when you start to use our amount book, and title will be accounting tool. There are two pages you can choose, which are Adding page and Viewing page.

Click the button of the page you want.

## 2 - Add a record

To add a record, you are required to choose adding page from main page. After that, you are good to choose event, type, time (or date) and submit some comments. The events include food, shopping, transportation, entertainment, travel, study, salary, financial server, and other. The two type of your record could be expense and income. Our system will record the income as positive number and the expense will be negative number. To input the amount, you need use edit button to set the number. As for time, you need to set year, month, it will automatically be the time of today when you set date, and you can choose whenever you want.

Besides, you can also add extra information of the record in comments.

## 3 - Delete record

To delete a record, you are required to choose viewing page from main page. You are also required to have at least one record to delete. Use this function, user could delete the records they do want.

#### 4 - Search a specific record by filter

To Search a specific record by filter, you are required to choose viewing page from main page. You are also required to have at least one record to be searched(although this function works better for large amount records). The filter works for specific event or date. Just type/choose the specific keyword to use this function.

#### 5 - Export file

Our amount book has the exporting function. To use this function, you are required to choose viewing page from main page. And you should have at least one record. By clicking the 'function' button which located on the left of top, there will be a option named 'export'. All the data and information of your records will be export by sequence.

# Java document

**PACKAGE** CLASS USE TREE INDEX HELP

SEARCH:  X

## Package amigos.accounting\_app

package amigos.accounting\_app

### Class Summary

Class	Description
<b>accountingTable</b>	class accountingTable collect a bunch of "records" and contains the function to deal with "records"
<b>addPage</b>	class addPage Create a GUI for the add Page and input from user action with JFrame, JButton and ActionListener.
<b>FCalendar</b>	Class FCalendar is a Calendar user interface which user can choose the day of records they want to see the records.
<b>mainPage</b>	The main page of software which will take user to different module by show the new page(addPage and FCalendar)
<b>Record</b>	Each Input from the User will keep as a Record type and store into database
<b>viewPage</b>	class viewPage create a GUI for the view page and show the records within the given range and some functions for user.

## Hierarchy For Package amigos.accounting\_app

### Class Hierarchy

- [java.lang.Object](#)<sup>🔗</sup>
  - amigos.accounting\_app.[accountingTable](#)
  - amigos.accounting\_app.[addPage](#)
  - amigos.accounting\_app.[FCalendar](#)
  - amigos.accounting\_app.[mainPage](#)
  - amigos.accounting\_app.[Record](#)
  - amigos.accounting\_app.[viewPage](#)

## Index

A F M R V

[All Classes](#) | [All Packages](#)

### A

**accountingTable** - Class in [amigos.accounting\\_app](#)

class accountingTable collect a bunch of "records" and contains the function to deal with "records"

**addPage** - Class in [amigos.accounting\\_app](#)

class addPage Create a GUI for the add Page and input from user action with JFrame, JButton and ActionListener.

[amigos.accounting\\_app](#) - package amigos.accounting\_app

A F M R V

[All Classes](#) | [All Packages](#)

Package `amigos.accounting_app`

## Class `accountingTable`

`java.lang.Object`

`amigos.accounting_app.accountingTable`

```
public class accountingTable
    extends Object
```

class `accountingTable` collect a bunch of "records" and contains the function to deal with "records"

Version:

1.0 (Nov 30 2021)

Author:

Yangzekun Gao, Maiqi Hou, Jingke Shi, Zhengyan Hu

See Also:

`Record`

### Method Summary

#### Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Package [amigos.accounting\\_app](#)

## Class `addPage`

[java.lang.Object](#)  
[amigos.accounting\\_app.addPage](#)

---

```
public class addPage  
extends Object
```

class addPage Create a GUI for the add Page and input from user action with JFrame, JButton and ActionListener. Store the input to record and save it at the local system

**Version:**

1.0 (Nov 30 2021)

**Author:**

Yangzekun Gao, Maiqi Hou, Jingke Shi, Zhengyan Hu

**See Also:**

[JFrame](#), [ActionListener](#)

### *Method Summary*

#### Methods inherited from class [java.lang.Object](#)

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#),  
[wait](#), [wait](#)

**Package** `amigos.accounting_app`

## Class `FCalendar`

`java.lang.Object`

`amigos.accounting_app.FCalendar`

---

```
public class FCalendar
```

```
extends Object
```

Class `FCalendar` is a Calendar user interface which user can choose the day of records they want to see the records.

**Version:**

1.0 (Nov 30 2021)

**Author:**

Yangzekun Gao, Maiqi Hou, Jingke Shi, Zhengyan Hu

### *Method Summary*

#### Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`,  
`wait`, `wait`



Package `amigos.accounting_app`

## Class `mainPage`

`java.lang.Object`

`amigos.accounting_app.mainPage`

```
public class mainPage  
extends Object
```

The main page of software which will take user to different module by show the new page(addPage and FCalendar)

Version:

1.0 (Nov 30 2021)

Author:

Yangzekun Gao, Maiqi Hou, Jingke Shi, Zhengyan Hu

### *Method Summary*

#### Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Package `amigos.accounting_app`

## Class Record

`java.lang.Object`  
`amigos.accounting_app.Record`

```
public class Record  
extends Object
```

Each Input from the User will keep as a Record type and store into database

Version:

1.0 (Nov 30 2021)

Author:

Yangzekun Gao, Maiqi Hou, Jingke Shi, Zhengyan Hu

### Method Summary

#### Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`,  
`wait`, `wait`

Package `amigos.accounting_app`

## Class `viewPage`

`java.lang.Object`  
`amigos.accounting_app.viewPage`

```
public class viewPage  
extends Object
```

class `viewPage` create a GUI for the view page and show the records within the given range and some functions for user.

### Version:

1.0 (Nov 30 2021)

### Author:

Yangzekun Gao, Maiqi Hou, Jingke Shi, Zhengyan Hu

### See Also:

`JFrame`, `ActionListener`

## Method Summary

### Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`,  
`wait`, `wait`