CS3354 Software Engineering Final Project Deliverable 2

Title of the Project: Calendar Software

Group Members:

Ami Patel Dhruvi Patel Jay Patel Vimal Patel Smit Shah [5 POINTS] Well described delegation of tasks, i.e. who did what in the project. Now that your project is complete, you are required to submit the delegation of tasks from beginning of the project until the end. Please make sure to fairly distribute tasks in the team and remember that in the end of the semester, each member of a team will receive the same grade. See grading policy below for more detail.

Tasks	Name
Project Scheduling	Dhruvi Patel, Ami Patel
Price Estimation	Ami Patel
Hardware/software cost estimation	Dhruvi Patel
Comparison with Google calendar	Smit Shah
Implementing a method to be tested in JUnit	Jay Patel
Conclusion	Vimal Patel
Presentation Slides	Vimal Patel
Editing Slides	Dhruvi Patel
Proofread the deliverable	Ami Patel
Upload the zip file on eLearning	Dhruvi Patel
Commit the document on GitHub	Smit Shah

2. **[5 POINTS]** Everything required and already submitted in Final Project Deliverable. Please specify this part as "Project Deliverable 1 content".

Project Deliverable 1 content

- 1. [5 POINTS] Please attach here the Final Project draft description (that contains the instructor feedback). It is ok to include a picture of the original document. Address the feedback provided for your proposal by listing what you are did to comply with the proposed changes/requests for additions to your project.
 - Feedback provided by the instructor on our proposal is that "As there are similar software implemented already, please include a comparison with similar software in your proposal report. Also, make sure to add extra feature(s) to your design so as to make it uniquely different."
 - As per the feedback provided by the instructor, we choose a very re-known application to compare with our final project calendar software, Google Calendar. While comparing with google calendar, we came to a conclusion that although the google calendar is so advanced and complex with versatile features, it still lacks addition of event labels or notes in natural languages by users. Thus, to make our calendar software distinctly competitive and unique, we chose to add a peculiar feature for every event called "Language Picker".
 - We are adding multiple languages to the calendar so that user can use the calendar in their own native languages such as Spanish, German, French, Chinese, Gujarati and Hindi.
 - Hence, we made successful changes and added "Language Picker" feature to our final project.

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Final Project Proposal

Final Project Proposal

For our project, the group would like to design a "Calendar Software," Our group have five members: Vimal Patel, Jay Patel, Smit Shah, Dhruvi Patel, and Amil Patel. We would like to design a calendar software that would allow users to get a monthly, daily as well as weekly view of the events while also helping them to be organized. Being students, we were amused by the idea of making a software that will be portable and can be used on a daily basis to get the visual idea of our daily as well as future events. The software will have some outstanding features like adding or removing events from the list of events, adding colorful labels to prioritize the events, checking if there is a time conflict and sending emails to invite friends for specific events. The events will be categorized as work-related, study-related, fun or any other category as per the user's choice. Users will be allowed to choose the mode, that is if the user wants to look at personal events or just the regular calendar with National holidays.

The main inspiration for choosing this project was to be able to design a

The main inspiration for choosing this project was to be able to design a calendar that could be accessed on multiple devices, and the one that could help us be on track with our daily goals at the start of each day. Constant priority reminders will allow the users to keep reminded of the things that they planned for. Weekdays and holidays be the days with special labels and user can choose the option of turning off the reminders on these days. Thus, building a calendar software as our semester project for this class would allow us to bring our daily ideas to life. The software can be used by all the students as well as professionals be aware of their daily agenda beforehand and the constant reminders would help them meet the deadlines. MOTHO

The list of tasks, as of now, includes:

NEC

Tasks	Member Name
Create the GitHub repository	Dhruvi Patel
Create the required project files (README, project_scope)	Vimal Patel
Research and analyze the requirements of the software closely	Ami Patel
Prepare the list of system requirements (Functional and non-functional)	Dhruvi Patel
Analyze the software model to be employed for our project	Smit Shah
Get the diagrams ready	Jay Patel
Review deliverable 1	Ami Patel
Submit the deliverable 1	Smit Shah

Compute the estimation costs of the software	Jay Patel
Start the testing	Ami Patel
Edit the presentation slides	Vimal Patel
Evaluate the software before submitting deliverable 2	Jay Patel
Submit deliverable 2	Dhruvi Patel

However, the proper implementation of the software might require some additional tasks which would be thought as we proceed towards the project.

As there are similar stw implemented already, pls include a companion we similar stw in your final report. Also, make companion we similar stw in your dealon so as to make sure to odd extra feature(s) to grade dealon so as to make the odd extra feature(s) to grade dealon so as to make sure to grade dealon so as to grade dealon so as to make sure to grade dealon so as to grade dealon so grade dealon so grade dealon so grade dealon so grade dealo

1. [10 POINTS] Setting up a GitHub repository:

- 1.1. Each team member should create a GitHub account if you don't already have one.
- 1.2. Create a GitHub repository named 3354-teamName. (whatever your team name will be).
- 1.3. Add all team members, and the TA as collaborators.

The TA's GitHub account info is as follows:

TA GitHub id: OmeedUTD

TA email: oea170001@utdallas.edu

- 1.4. Make the first commit to the repository (i.e., a README file with [team name] as its content).
- 1.5. Make another commit including a pdf/txt/doc file named "project_scope". If you choose a predefined topic (one of the 4 topics described in the "Project Topic Ideas" section of this document), the contents of the file should be identical to the corresponding project in this section. If you choose other topics, the contents should follow a similar structure.

 1.6. Keep all your project related files in your repository as we will check them. Include the URL of your team project repository into your project deliverable 1 report.

Important Note:

- \cdot Tasks 1.3 1.5 should be performed by different team members. We will check the commit history for these activities.
- · Do not include credentials (e.g., UTD ID) in the repository.
- · Only commits performed before the deadline will be considered. Do not forget to push your changes after you have done the work!

URL: https://github.com/patelami3431/3354-SoftwareGeeks

2. [5 POINTS] Delegation of tasks: Who is doing what

Tasks	Member Name
Creating the GitHub repository	Ami Patel
Creating the required project files (README.md)	Dhruvi Patel, Ami Patel
Creating the required project files (project_scope.md)	Jay Patel
Researching and analyzing the requirements of the software closely, and preparing the list of system requirements (Functional and non-functional)	Smit Shah (Functional) Vimal Patel (Non- Functional)
Analyzing the software model to be employed for our project	Dhruvi Patel
Getting the Use-case diagram ready	Jay Patel
Getting the Sequence diagrams ready	Ami Patel
Getting the Class diagram ready	Dhruvi Patel
Analyzing the software and choosing the architectural design	Vimal Patel
Reviewing project deliverable 1	Ami Patel
Submitting project deliverable 1	Smit Shah

3.[5 POINTS] Which software process model is employed in the project and why. (Ch 2)

After analyzing all software process models, our group has finalized **incremental process model** for our project. This is mainly because this specific model involves making of "increments" as time goes by. The calendar software can require addition of new and trendy features as time increases and choosing this model helps us perform

this task better. It would be easier to add all new features to the software and deploy it faster for the time being [1].

4. [15 POINTS] Software Requirements including

4.a.) [5 POINTS] Functional requirements. To simplify your design, please keep your functional requirements in the range minimum 5 (five) to maximum 7 (seven). (Ch 4)

- 1. The user should be able to look for the events for any specific date or month.
- 2. The user should be able to pick any language from the available ones to add any event to the calendar.
- 3. The user should be able to delete any event.
- 4. The user should be able to send the invites for an event to different people if needed.
- 5. The user should be able to make modifications in any existing event.
- 6. The software should be able to generate and display the list of daily or monthly events in chronological order.
- 7. Each user should be identified using a unique username and login password.

4.b.) [10 POINTS] Non-functional requirements (use all non-functional requirement types listed in Figure 4.3 - Ch 4)

Product Requirements:

Space Requirements:

1. The software would require 200 MB of space on any device it is being installed.

Performance Requirements:

- 1. The software would operate online 100% of the time.
- 2. Downtime of the software should not exceed 10 seconds.
- 3. Software should take no longer than one minute to update the calendar view.

Usability Requirements:

- 1. The software would require the user to make the contacts accessible in order to send the invites for any event.
- 2. All the events before one year shall be deleted automatically.

Organizational Requirements:

Operational Requirements:

- 1. Users of this software shall create an account using their gmail accounts only.
- 2. Users shall authenticate themselves using their unique user ID.

Developmental Requirements:

 The software can be downloaded/updated on any platform, Android or IOS.

External Requirements:

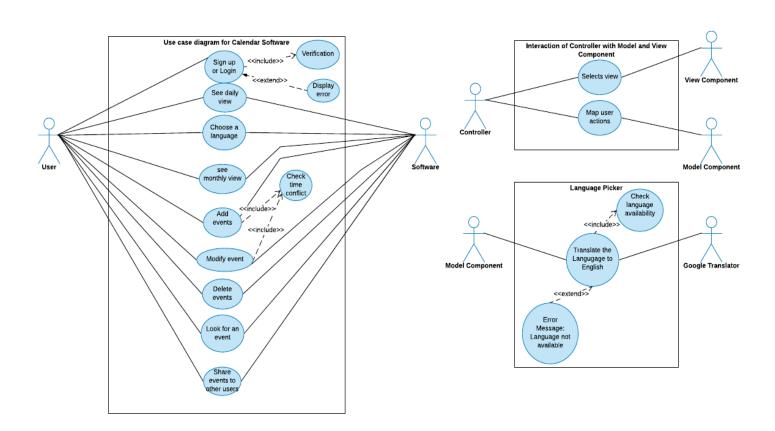
Safety/Security Requirements:

1. The software shall perform user authentication to support the privacy of users.

Regulatory Requirements:

- 1. Users are responsible for the contents/events they add or delete.
- 2. The software would not constrain or restrict any language used by the user.

5. [15 POINTS] Use case diagram – Provide a use case diagram (similar to Figure 5.5) for your project. Please note than there can be more than one use case diagrams as your project might be very comprehensive. (Ch 5 and Ch 7)



Use case tabulations:

System	Calendar Software (View component)
Use case	Sign up or Login
Actors	User, Calendar Software, View component
Data	Through the View component, the user accesses the user account, either by logging into the existing account or creating a new user account. Once the user login information is verified, the user is given access to the account. If the user chooses to create a new account, user identity will be verified as well. If the user does not exist in the component, an error is thrown.
Stimulus	User clicks to log in/create the user account.
Response	Calendar Software accesses the controller component to verify the user account, and enable user to access the account
Comments	None

System	Calendar Software (View component)
Use case	Look for an event
Actors	User, Calendar Software, View component, Controller, Model component
Data	The user can access the event details by clicking Look Event in view component. The view component passes the information to controller, which then access the Model to return event details to user. The controller will determine through UID that if user is authorized to access the event detail or not. If not, an error gets displayed.
Stimulus	User clicks on look for an event

Response	View Component accesses the Model component to display the event details.
Comments	None

System	Calendar Software (view component)
Use case	Add an event
Actors	User, Calendar Software, View component, Controller, Model Component
Data	The user can add an event by clicking Add Event in view component. the view component passes information to controller component, which then determines the user authorization to add an event. If user is authorized, the controller will pass the information to Model. The Model will check if the new created event has any time conflict with existing event. If there is no time conflict, the model will create new event, and notify View component about new event details. An error message will be displayed if user is unauthorized or if there is time conflict.
Stimulus	User clicks to add an event.
Response	View Component accesses the Controller and Model component to add a new event.
Comments	None

System	Calendar Software (view component)
Use case	Modify an event

Actors	User, Calendar Software, View component, Controller, Model Component
Data	The user can modify an event by clicking Modify Event in view component. The view component passes information to controller component. If user is authorized to modify the event, the controller will pass the information to Model. If there is no time conflict, the model will replace the new modified event with existing event and notify View component about the modification. An error message will be displayed if user is unauthorized or if there is time conflict.
Stimulus	User clicks to modify an event.
Response	View Component accesses the Controller and Model component to modify an event.
Comments	None

System	Calendar Software (view component)
Use case	Delete an event
Actors	User, Calendar Software, View component, Controller, Model Component
Data	The user can delete an event by clicking Modify Event in view component. The view component passes information to controller component. If user is authorized to delete the event, the controller will pass the information to Model. The Model will delete an event and notify the View component. An error message will be displayed if user is unauthorized to delete an event.
Stimulus	User clicks to delete an event.
Response	View Component accesses the Controller and Model component to delete an event.

Comments	None

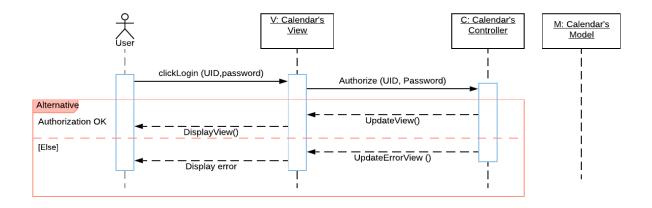
System	Calendar Software (view component)				
Use case	Share an event				
Actors	User, Calendar Software, View component, Controller, Model Component				
Data	The user can share an event by clicking "Send Invites" and providing sender's UID or email in view component. The view component passes information to controller component. If user is authorized to share the event, the controller will pass the information to Model. The Model will send the event invites to sender's UID or email and notify the user about shared event through view component. An error message will be displayed if user is unauthorized.				
Stimulus	User clicks to share an event with another user				
Response	View Component accesses the Controller and Model component to share an event.				
Comments	None				
	Calendar Software (view component)				
System					
Use case	Get monthly/daily view				
Actors	User, Calendar Software, View component, Controller, Model Component				

Data	The user can get monthly/daily view of events by clicking "Daily view/ Monthly view" in view component. The view component passes information to controller component. If user is authorized to get daily and monthly view, the controller will pass the information to Model. The Model will get the list of events and display the event list to user through view component. An error message will be displayed if user is not authorized to view event list.	
Stimulus	User clicks to get the monthly/daily view.	
Response	View Component accesses the Controller and Model component to component to component to component with the controller and Model component to compone	
Comments	None	

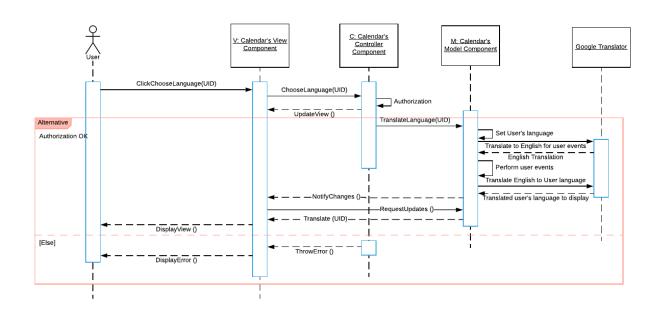
System	Calendar Software (view component)				
Use case	Choose Language				
Actors	User, Calendar Software, View component, Controller, Model Component, Google Translator				
Data	The user can choose the language by clicking Choose Language in view component. The view component passes information to controller component. If user is authorized to change language, the controller will pass the information to Model. The Model will set the chosen language as user language and access the Google Translator to change calendar view from English to user language. The model component will notify the view component to change calendar view to user chosen language. An error message will be displayed if user is not authorized to change the language.				
Stimulus	User clicks to change language.				
Response	View Component accesses the Controller, Model component, and Google Translator to translate the language.				
Comments	None				

6. [15 POINTS] Sequence diagram – Provide sequence diagrams (similar to Figure 5.6 and Figure 5.7) for each use case of your project. Please note that there should be an individual sequence diagram for each use case of your project. (Ch 5 and Ch 7)

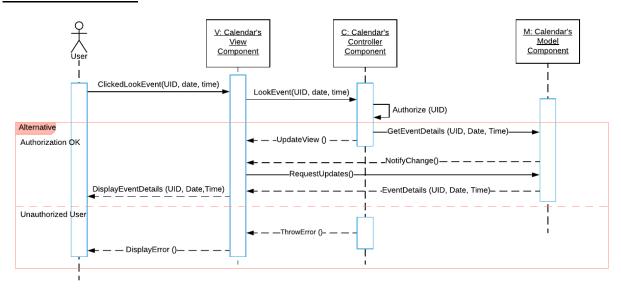
Sign Up/Login



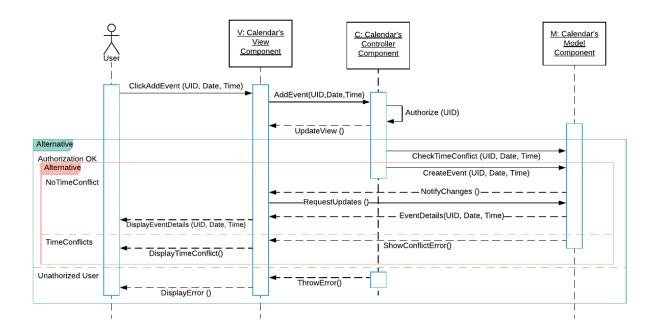
Choose a Language



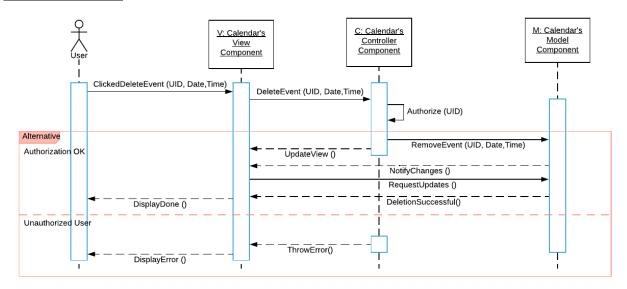
Look for an Event



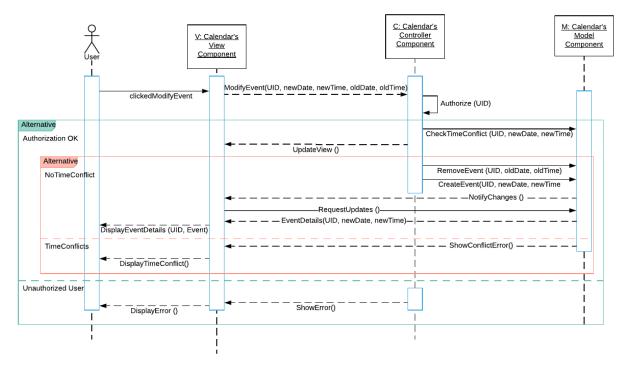
Add an Event



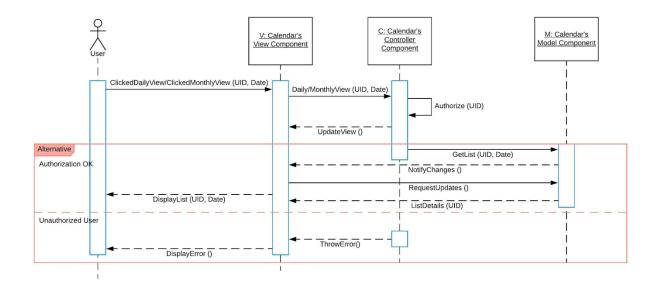
Delete an Event



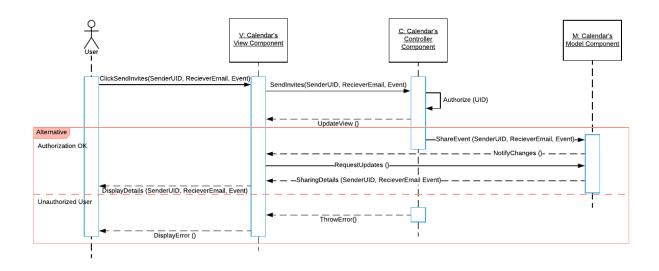
Modify Event



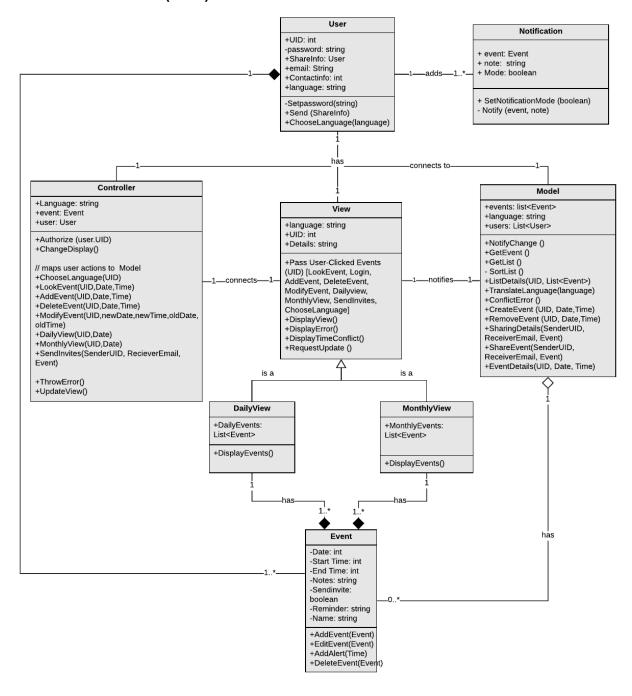
Get Daily/Monthly View



Share an Event/Send Invites

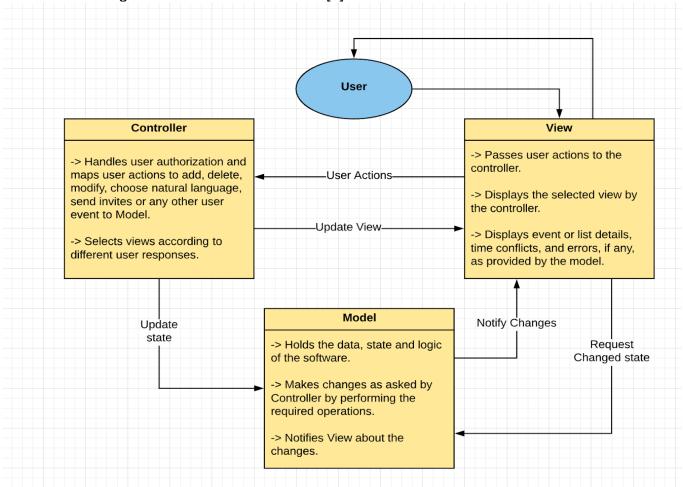


7. [15 POINTS] Class diagram – Provide a class diagram (similar to Figure 5.9) of your project. The class diagram should be unique (only one) and should include all classes of your project. Please make sure to include cardinalities, and relationship types (such as generalization and aggregation) between classes in your class diagram. Also make sure that each class has class name, attributes, and methods named (Ch 5).



- 8. [15 POINTS] Architectural design Provide an architectural design of your project. Based on the characteristics of your project, choose and apply only one appropriate architectural pattern from the following list: (Ch 6 section 6.3)
- a. Model-View-Controller (MVC) pattern (similar to Figure 6.6)
- b. Layered architecture pattern (similar to Figure 6.9)
- c. Repository architecture pattern (similar to Figure 6.11)
- d. Client-server architecture pattern (similar to Figure 6.13) e. Pipe and filter architecture pattern (similar to Figure 6.15)

After analyzing all patterns, our group decided to use MVC architecture pattern for calendar software. MVC architecture is typically used when there are multiple ways to view and interact with data. This is also used when future requirements for interaction and presentation of data are unknown. Therefore, considering these facts, we decided MVC would be right for the calendar software [1].



Model component:

This component contains the system data and logic associated with that data. The data, logic, and rules of the calendar software will be handled by this component. It will contain all of the methods related to calendar software including get monthly/daily view, add/delete an event, view event, modify/edit event and check time conflict when editing events as could be seen in the above class diagram [1].

View component:

View component of MVC manages how the data is presented to the user. The user will directly interface with the view. After interacting, View would pass these user events to the controller so that it could further map it to the model. Once being handled by the model, the Model component notifies the View component of the changes been made and thus, the view component displays directly the details [1].

Controller component:

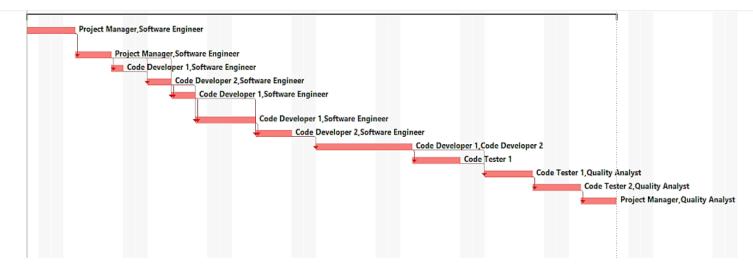
The controller handles user interactions and passes these interactions to the Model components and makes necessary changes as requested by the user. Controller is a mediator, which will interact with both model and view components based on user's actions. The controller will request the model component to change, modify, delete, add an event or perform any other operation. Basically, the controller takes user input through view and figures out what it means to the model. Also, the controller will select the view to be displayed according to the user request and passes the selected view to the View component [1].

- 3. [50 POINTS] Project Scheduling, Cost, Effort and Pricing Estimation, Project duration and staffing: Include a detailed study of project scheduling, cost and pricing estimation for your project. Please include the following for scheduling and estimation studies:
 - 3.1. [20 POINTS] Project Scheduling. Please note that what you present should be the timeline of the project designed, NOT the time you've spent on it.

Use an automated tool (such as MS Project) to plan a schedule for your project. It should include tasks, durations, and dependencies for your project provided on a table (similar to Figure 23.5), as well as an activity bar chart (similar to Figure 23.6) drawn using an automated tool (such as MS Project). A guideline document on how to install MS Project from Microsoft Imagine link, as well as a sample MS Project file for helping you prepare a timeline graph were already provided as part of hw7 and provided again attached to this document. Also, remember that MS Project is installed and ready for use in UTD Open Lab computers.



ask Name	▼ Duration ▼	Start	▼ Finish	→ Predecessors →	Resource Names
4	35 days	Fri 4/19/19	Thu 6/6/19		
Requirement modeling	2 days	Fri 4/19/19	Mon 4/22/19		Project Manager, Software Engineer
Analysis	3 days	Tue 4/23/19	Thu 4/25/19	2	Project Manager, Software Engineer
Use-Case diagrams	1 day	Fri 4/26/19	Fri 4/26/19	3	Code Developer 1, Software Engineer
Sequence diagrams	2 days	Mon 4/29/19	Tue 4/30/19	3,4	Code Developer 2, Software Engineer
Design class diagrams	2 days	Wed 5/1/19	Thu 5/2/19	3,5	Code Developer 1, Software Engineer
Architectural Design	3 days	Fri 5/3/19	Tue 5/7/19	5,6	Code Developer 1, Software Engineer
Component Design	3 days	Wed 5/8/19	Fri 5/10/19	6,7	Code Developer 2, Software Engineer
Code generation	6 days	Mon 5/13/19	Mon 5/20/19	8	Code Developer 1, Code Developer 2
Unit Testing	4 days	Tue 5/21/19	Fri 5/24/19	9	Code Tester 1
Integration Testing	4 days	Mon 5/27/19	Thu 5/30/19	9,10	Code Tester 1, Quality Analyst
System Testing	2 days	Fri 5/31/19	Mon 6/3/19	11	Code Tester 2, Quality Analyst
Deployment	3 days	Tue 6/4/19	Thu 6/6/19	12	Project Manager, Quality Analyst



- 3.2. [15 POINTS] Cost, Effort and Pricing Estimation. Describe in detail which method you use to calculate the estimated cost and in turn the price for your project. Some cost modeling techniques you may use are listed as follows:
- 1. Function Point Or any of the following COCOMO II estimation models
- 2. Application composition
- 3. Early design
- 4. Post-architecture

The method used for price estimation of the calendar software was **Function Point (FP) method**. This method mainly focuses on the amount of functionality in the system. Since the Calendar Software is likely to evolve and have multiple new features, this estimation method would help us estimate the costs and complexity based on end-user requirements. Also, this could be easily used to compare two different versions of the software, even if they use different technologies.

Function Category	Count	Complexity			Count *complexity
		Simple	Average	Complex	
Number of user input	8	3	4	6	24
Number of user output	6	4	5	7	24
Number of user queries	3	3	4	6	9

Number of data files and relational tables	24	7	10	15	168
Number of external interfaces	4	5	7	10	20
				GFP	245

- 2. <u>Complexity:</u> **Simple** (Based on the slides)
- 3. Gross Function Point (GFP): 245 (From the table)
- 4. Processing Complexity (PC):
- (1) Does the system require reliable backup and recovery? 5
- (2) Are data communications required? 3
- (3) Are there distributed processing functions? 3
- (4) Is performance critical? 4
- (5) Will the system run in an existing, heavily utilized operational environment? 1
- (6) Does the system require online data entry? 5
- (7) Does the online data entry require the input transaction to be built over multiple screens or operations? **2**
- (8) Are the master files updated online? 5
- (9) Are the inputs, outputs, files, or inquiries complex? 2
- (10) Is the internal processing complex? 4
- (11) Is the code designed to be reusable? 4
- (12) Are conversion and installation included in the design? 3
- (13) Is the system designed for multiple installations in different organizations? 5
- (14) Is the application designed to facilitate change and ease of use by the user?
- 5. Processing Complexity Adjustment (PCA):

$$PCA = 0.65 + 0.01 (5*5 + 3*4 + 3*3 + 2*2 + 1) = 1.16$$

6. Function point (FP):

7. **Productivity Calculation:** The team that would develop the calendar software consists of 7 people and the FP value is 284.2 FP. The team will be hired on a full-time basis for 35 days or 5 weeks.

Effort value: (5 weeks) * (7 people) = **35 person-weeks**

Productivity value: 284.2 FP / 35 person-weeks = **8.12 FP per person-week**

3.3. [5 POINTS] Estimated cost of hardware products (such as servers, etc.)

Servers (Workstation): \$1627.18 each (2 workstations required) [9]

Monitors: \$1199.99 each (at least 4 required) [10]

Graphics Card: \$174.99 (at least 2 required) [11]

Estimated total of Hardware: (\$3254.36) + (\$4799.96) + (\$349.98) = **\$8404.3**

3.4. [5 POINTS] Estimated cost of software products (such as licensed software, etc.)

Average cost for software license: \$800 [7]

MS Project Installation fee: \$15/ Month (~ \$30) [12]

Estimated total of Software: (\$800) + (\$30) = **\$830**

3.5. [5 POINTS] Estimated cost of personnel (number of people to code the end product, training cost after installation)

Number of People to code the end product: 7

Resource	Cost
Project Manager	\$ 2934.1
Software Engineer	\$ 4096
Code Developer 1	\$ 2399.04
Code Developer 2	\$ 2199.12
Quality Analyst	\$ 1627.92
Code Tester 1 (Primary)	\$ 1368.32
Code Tester (Secondary)	\$ 342.08
Total	\$14,966.58

4. [10 POINTS] A test plan for your software: Describe the test plan for testing minimum one unit of your software. As an evidence, write a code for one unit (a method for example) of your software in a programming language of your choice, then use an automated testing tool (such as Junit for a Java unit) to test your unit and present results. Clearly define what test case(s) are provided for testing purposes and what results are obtained. (Ch 8)

In order to design the test plan for our calendar software, we implemented **timeConflict** () method by adding a new event and comparing it with exiting event for a given user.

We designed five classes:

- Event.java
- user.java
- model.java
- TestJunit.java
- TestJunit1.java

timeConflict () would check if there is already an existing event for that user. If so, it throws an error and returns false for the function. The test cases were implemented in TestJunit.java and TestJunit1.java. The method first compares the date of event added, and if the date of added event is same as existing event, the program will compare the time of events, and display error output if there is conflict, else the message that it was success is displayed.

```
for (int i = 0; i < events.size(); i++)
{
        //i++;
        if (events.get(i).getdate() != date)
        {
            System.out.println("no Time conflict!");
               //there is no time conflict!!!
                return true;
        else
        {
             if (events.get(i).getStartTime() != time)
                 System.out.println("no Time conflict!");
                   //there is no time conflict!!!
                    return true;
             }
        }
}
```

5. [10 POINTS] Comparison of your work with similar designs. This step requires a thorough search in the field of your project domain. Please cite any references you make.

Comparison of Our Final Project (Calendar Software) and Google Calendar

There are many Calendar software applications available online such as G Suite, Doodle, Google Calendar, Toggle, Asana and Gmail Calendar, which offer services like adding, deleting and modifying events. We chose to compare our software with Google Calendar. While comparing with google calendar, we came to a conclusion that although the google calendar is so advanced and complex with versatile features, it still lacks addition of event labels or notes in user's own natural language. Thus, to make our calendar software competitive and unique, we chose to add a peculiar feature for every event called "Language Picker". Multiple languages are added to the calendar so that user can use the calendar in their own native language such as Spanish, German, Chinese, Hindi, French etc.

Moreover, while comparing prices we found out that Google Calendar is free while G Suite charges \$5.00 per month. Like Google Calendar, our Calendar Software also doesn't charge fee so that it becomes convenient as well as widely popular among users. Furthermore, any Web-based app and Android app platform will be able to install Calendar software. Customers such as Freelancers, small businesses and Mid – size Businesses can use such software.

Google Calendar uses features such as sharing calendars with friends, family members, and peers. It also uses device synchronization, collaborating and sharing group events, scheduling meetings and getting notifications. Our calendar software automatically deletes all previous meetings and events after every 1 year. So, the addition of new feature "Language picker" and constant deletion of events after 1-year frame helps keep our software unique as well as different from Google Calendar [8].

6. [10 POINTS] Conclusion - Please make an evaluation of your work, describe any changes that you needed to make (if any), if things have deviated from what you had originally planned for and try to give justification for such changes.

Our calendar software project provides features such as add, delete and modify events, scheduling meetings with peers, giving invitations to fellow peers, modify events and gives reminder for each event and meeting. We added one unique feature called "Language Picker" to make our calendar software unique, competitive and attractive. With the help of this feature user can use this calendar in their own native language such as Spanish, German, Chinese, Hindi, French etc. to schedule events, modify events, scheduling meetings, etc.

In addition, our calendar software is free for everyone so that people can use it freely anywhere online. The overall cost of the complete software was found to be about \$24,000, including the hardware, software and personnel costs.

Furthermore, no big changes were made regarding the functional and non-functional requirements of the software. Calendar Software supports almost all platforms which adds to the portability of the software

User Interface Design for the Calendar Software in iPhoneX (using Mockup tool):



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