

CSC 431

Tax Calculator

Software Requirements Specification (SRS)

<Team #11>

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Version History

Version	Date	Author(s)	Change Comments
1.0	Feb 2, 2021	Shusen Han Ziheng Tang	First Draft
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Table 16: Budget

Table 17: Schedule

1 System Requirements

1.1 Functional Requirements

1.1.1 Graphical UI Requirements

Table 1: Graphical UI Requirements

Title	Graphical UI Requirements
Description	User need a graphical UI to interact with the app
Priority	0
Precondition(s)	Open the app
Basic Flow	Users need a brief UI to interact with the app but not something like linux's command line.
Postconditions(s)	show result and various information

1.1.2 Search Requirements

Table 2: Search Requirements

Title	Search Functional Requirement
Description	User must be able to search which state and city they live in
Priority	0
Precondition(s)	User must input the correct state or city
Basic Flow	Users input a string, and the function begins to match state or city. If the string doesn't match anything, it will remind users to input again. If the string matches a state or city, return the state name.
Postconditions(s)	the return value will activate the next function

1.1.3 Database Requirements

Table 3: Database Requirements

Title	Database Functional Requirement
Description	The app needs a database to store the information of taxation, and it will make it easier to update the new data about the taxation, such as tax rate.
Priority	0
Precondition(s)	search function returns a result or developers need to update the information.

Basic Flow	When the search function returns a result, the database should give the matched information, such as tax rate.
Postconditions(s)	give the information to the next function to calculate.
Use Case Diagram	

1.1.4 State Tax Calculate Requirements

Table 4: State Tax Requirements

Title	State Tax Calculate Requirement
Description	The core part of the app, which gives users a result of how much they need to pay for the state.
Priority	3
Precondition(s)	Database input the information
Basic Flow	Begin to ask users some questions and let them input incomes or some other information. Then calculate the tax they need to pay by the information they input.
Postconditions(s)	the return value will activate the next function
Use Case Diagram	

1.1.5 Federal Tax Calculate Requirements

Table 5: Federal Tax Requirements

Title	Federal Tax Calculate Requirement
Description	The core part of the app, which gives users a result of how much they need to pay for the federal government.
Priority	5
Precondition(s)	Finish state calculate function
Basic Flow	Calculate how much the user needs to pay for the federal government. This part is much easier than state tax part.
Postconditions(s)	return a value to users
Use Case Diagram	

1.2 Non-functional Requirement

1.2.1 Nice UI Requirement

Table 6: Nice UI Requirements

Title	Nice UI requirement
Description	The UI should be friendly to the user, and it should have a special style.
Priority	5
Applicable FR(s)	Graphical UI Requirement

2. System Constraint

2.1 Tool Constraints

2.1.1 Qt

Table 7: Qt

Title	Qt
Description	For graphical UI develop
Priority	4

2.1.2 Eclipse Requirement

Table 8: Eclipse Requirements

Title	Eclipse
Description	JAVA IDE
Priority	0

2.2 Language Constraints

2.2.1 JAVA

Table 9: JAVA

Title	JAVA
Description	We will use java to achieve most of the code
Priority	0

2.3 Platform Constraints

2.3.1 Android

Table 10: Android

Title	Android
Description	Android is used in so many portable devices, it has hundreds millions of potential users.
Priority	1

2.3.2 **IOS**

Table 11: IOS

Title	IOS
Description	IOS devices have the second largest number of users in the United States.
Priority	2

2.4 Hardware Constraints

2.4.1 Cell Phone

Table 12: Cell Phone

Title	Cell Phone
Description	Cell Phone has become the most important device in the Internet Era,
Priority	0

2.5 Network Constraints

2.5.1 Offline Only

Table 13: Offline Only

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Title	Offline Only
Description	This just is a calculator, and we don't need to worry the user how to pay the tax. Moreover, taxation is very important personal information, and online work may cause privacy leaks.
Priority	2

2.6 Deployment Constraints

2.6.1 Upgrade

Table 14: Upgrade

Title	Upgrade
Description	We plan to make the calculator work in every state one by one, thus, it needs continuous upgrade. Moreover, we need to adjust with time.

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2.7 Transition & Support Constraints

2.7.1 Course Project

Table 15: Course Project

Title	Course Project
Description	Once the course ends, there will be no update on this project.
Priority	2

2.8 Budget & Schedule Constraints

2.8.1 Budget

Table 16: Budget

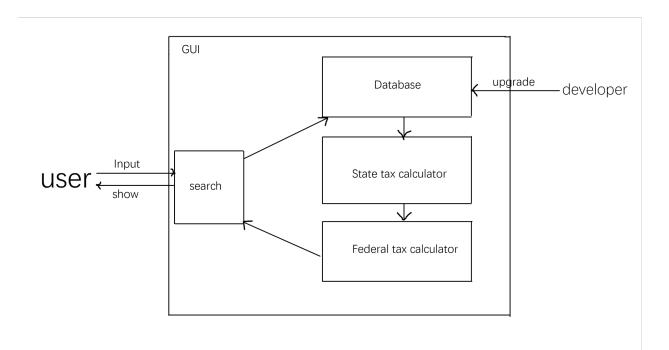
Title	Budget
Description	There is not budget for this project.
Priority	5

2.8.2 Schedule

Table 17: Schedule

Title	Schedule
Description	We will follow the syllabus' deadline.
Priority	3

3. Requirements Modeling



4. Evolutionary Requirements

4.1 Functional Requirements

No functional requirements now.

4.2 Non-Functional Requirements

No non-functional requirements now.