

# SRS

**Project Name:** Globex Payroll System

**Version Number:** 1.0.0

**Date of Release:** 5/20/21

## Introduction

### 1.1 Purpose

The purpose of this software is to update the business' infrastructure in regards to implementing software that aims to replace the outdated methods of payrolls. The organization's wishes to update their equipment to modernity and a new payroll system fits into their goals for now.

### 1.2 Scope

#### Product Name

The projects name will be called "Project Monterno" Monterno meaning "modern" in Greek, and later as Globex payrolls.

#### Overview

The product will keep track and conduct payrolls for individuals working for Globex driving school. It will also hold data on previous installments for employees.

#### Goals

The goal of this system is to provide the client with updated technology that will boost their business into modern times.

This software is but one important step to achieving modernity in their business.

The high-level objectives of this product include:

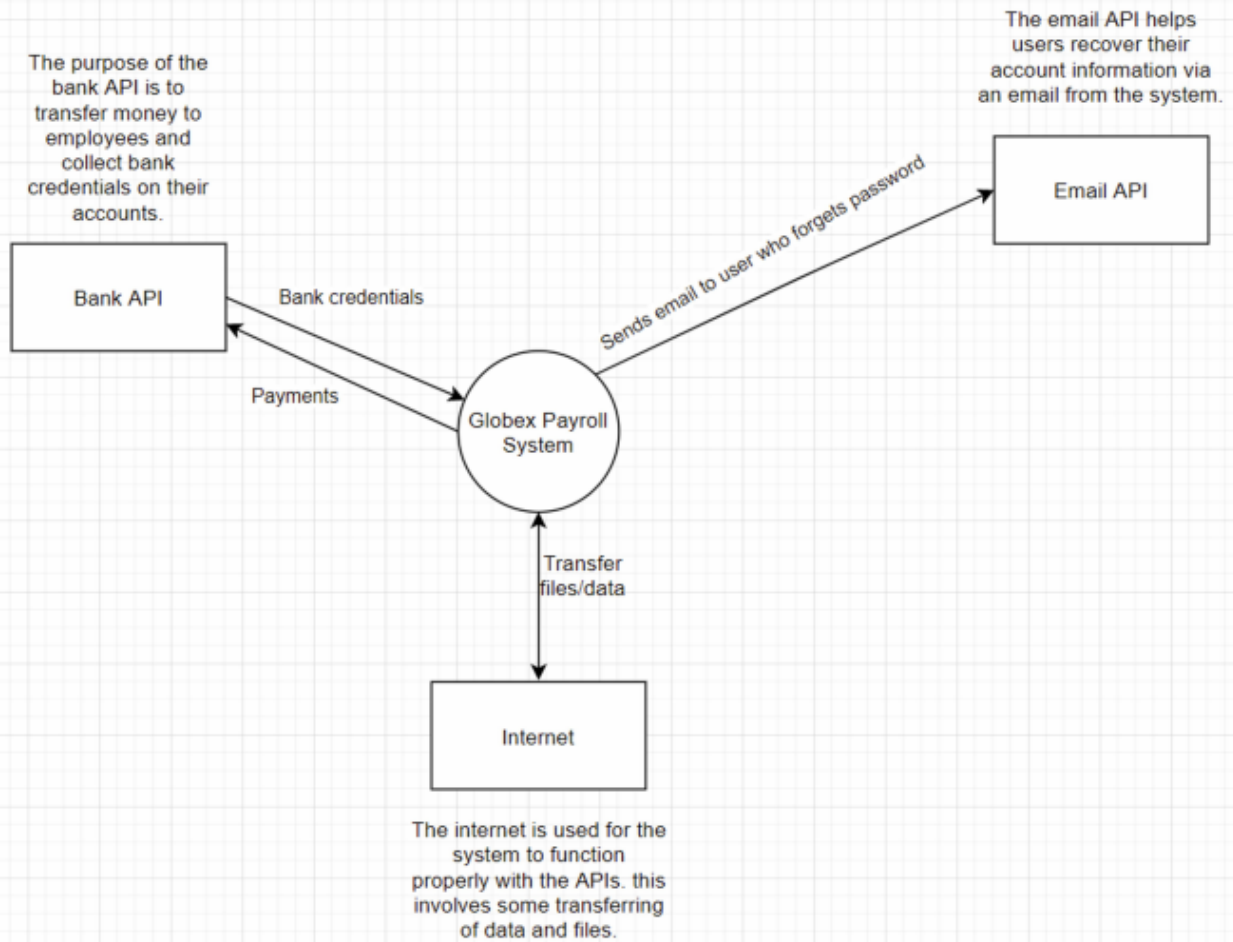
- Provides a way for client to input payrolls.
- Achieve simplicity for the users who aren't use to new technology.
- Improve business operations.
- Released before the summer.
- Project will not be "Done" until prototype is acceptable.

#### Out of Scope

- The product will not make any improvement in conducting classes.
- The product will not keep track of vehicles that are owned by the business.
- The product will not change the behaviors of other applications.

### 1.3 Product overview

#### 1.3.1 Product perspective



Key	Summary	T
SR-51	The system will need to have internet access and needs to be pretty fast. About 25 mb/s.	✓
SR-50	The user will need to be well versed on how to properly retrieve their password from their email without compromising it.	✓
SR-49	The product will need to use up to date API's to correctly function.	✓
SR-48	The product will need to be run on windows and macs may have trouble running this.	✓
SR-37	The application mustn't take up too much RAM. Slow downs are an issue they made clear.	✓
SR-36	Online payments must be flexible as many employees does not utilize the same service. Examples: Chase, TD Bank, etc.	✓
SR-35	The app may need to be made for mobile as well since the CEO is an entrepreneur and travels on occasion.	✓
SR-34	The operators for this system aren't very tech savvy and may need a lot of tutorials on even just setting it up. Guidance is essential.	✓
SR-33	The system may need to be installed on old systems. It's not completely apparent if they are going to upgrade anytime soon but they are expecting the product to work regardless of platform.	✓

9 issues

### 1.3.2 Product functions

- The system will provide a way for employees to access the system. Utilizing personal passwords and other credentials they will provide upon signing up.

- The system will utilize a database so to keep track of the information they put in. Its imperative that this data doesn't get lost.
- A button will be available to be pressed once all of the information for the payments have been inputted.
- The system will ask the user if the information they put in are correct before proceeding on.
- Controls for the system will only be limited to what is seen on the screen. No additional commands from the keyboard other than typing in information.

### 1.3.3 User characteristics

The users may or may not have much experience with modern day technology. Knowledge on how much they know is a must. This will also help with fine tuning the software to suit their skills. Some tutorials will be needed perhaps to make this a smooth transition for them. Disability may be an issue if they can't type mostly. Usability is expected to be weekly.

### 1.3.4 Limitations

Key	Summary	T
SR-57	The application must NOT take up too much memory (RAM). Slow downs causes headaches as mentioned by the clients.	?
SR-56	The system may need to be able to function on apple devices and android devices as well since the manager is constantly traveling.	?
SR-55	Control functions will be limited to what is seen on screen. Can't make over complicated buttons and options.	?
SR-54	Computers being utilized now seem to be quite outdated but may need to figure out if there is a work around on getting new ones.	?
SR-53	The software will need to be simplistic as possible due to low knowledge on modern technology.	?

5 issues

## 1.4 Definitions

- "Be safe, drive safe." - This is commonly used within the business since it's a driving school and all of the employees drive vehicles with students to teach them the rules of the road.

## 2. References

Lennox Gilpin - CEO of Globex Driving School.

Juanita Gilpin - Executive Manager of Globex Driving School

## 3. Specific Requirements

Key	Summary	Description	T	Linke d Issues	P	Labels
SR-52	The system shall keep records of the Employees as compliant to the FLSA.	This requirements is in regards to the FLSA (Fair Labor Standard Act) that states that the employees hours worked, information and pay must be kept on record along with their personal information such as date of birth, gender and occupation.	☐		↑	Databas e, Non- Function al
SR-47	The system shall maintain constant internet access whenever the system is being used.	Constant internet access is essential for the system to function properly.	☐		↑	Non- Function al
SR-46	The system shall incorporate banks that the employees registered in the system utilize.	The banks that employees are currently enrolled in will need to have their bank supported in this new system.	☐	SR-17	↑	Non- Function al
SR-45	The system shall utilize databases given by APIs to maintain track of payments.	The databases that the API would provide will aid in maintaining the databases on the program itself.	☐	SR-20	↑	Databas e, Interface
SR-44	The system shall inquire credentials on emails from the email API.	This will get the related email info that relates to the clients who lost their information to sign in on the program.	☐		↑	Interface

SR-43	The system shall inquire credentials on bank accounts from the bank API.	Grabbing the information on some of the employees are important in giving them their paychecks.		SR-18	↑	Non-Functional
SR-42	The system shall require internet access to connect to services which aid in program functions.	The system will need internet access to utilize the API's and provide optimal service.			↑	Non-Functional
SR-41	The system shall utilize API's that will link with banks to aid in transferring funds.	The banks API would assist in helping with the programs payroll system.		SR-16	↑	Interface
SR-40	The system shall utilize API's that sets up an email to help in aid of password retrieval.	The API's will help assist in retrieving the client's emails in case they forget what they were.		SR-29	↑	Non-Functional
SR-39	The system shall include documents which aims to help the user troubleshoot issues with the system.	The documents will be useful to the client in troubleshooting issues with the system without the help of a professional.		SR-32	↑	Non-Functional
SR-38	The system shall utilize less RAM to prevent slowdowns on the system.	This requirement is related to the speed of the program as to not slow down any other apps and the whole system itself.			↑	Non-Functional
SR-31	The system shall include a support button within the interface. The operator can utilize this to get into contact with one of the developers of the application.	An interface requirement. This helps get in touch with developers. It may use their contact info and dial in for them.		SR-32	↓	Interface
SR-30	The system shall include a login system that will ask the user their username along with their password. In case the user forgets their information, an option will be included to retrieve the information.	This is a quality (non-functional) requirement. It's more security based since it is making new passwords and identification.		SR-29	↓	Quality
SR-28	The system shall include a password retrieval system that sends the user their old password via their email. The operator can then utilize the system to gain access to their system once more.	Interface requirement. This requirement utilizes emails to retrieve password information.		SR-29	↓	Interface
SR-27	The system shall have incorporated buttons that will provide simple interaction. Included is a help button to help guide the operator on what each function does.	This is a functional requirement. The buttons all take user inputs and presents what the functions do on screen.		SR-15	↑	Functional
SR-26	The system shall include a confirmation system so that any information that has been inputted into the system will ask if the information presented is correct. The operator will then have the option to be able to accept or decline the information.	This is a functional requirement. It takes input from the user based on their confirmation.		SR-14	↑	Functional
SR-25	The system shall have a functional button that allows quick acceptance upon validating that information is correct. A confirmation will also be included to ensure that no mistakes are being made before it is sent out.	This is a functional requirement. It takes a button input from the user.		SR-16	↑	Functional
SR-24	The system shall present a payment status for the employees that are getting their salary from the organization. This will be updated whenever a payment is made on time or not. The operator will also be notified when a payment has been missed.	This is a non-functional requirement. It's more of a serviceability for the user.		SR-20	↑	Non-Functional
SR-23	The system shall have the functionality for the manager to make approvals for payments. This function will be present when the operator places a payment for their employees.	This is a functional requirement since it takes input from the user for approvals.		SR-19	↑	Functional
SR-22	The system shall be accessible by the manager which will help them evaluate previous payments made for employees. The information will be stored in their respective database.	This is a non-functional requirement. It does not take inputs from the user but helps them maintain their payments.		SR-17	↑	Non-Functional
SR-21	The system shall allow employees to access the system which will help them evaluate previous payments. The information will be stored in the respective database.	This is a non-functional requirement. It does not take inputs from the user but allows them to evaluate their payments.		SR-18	↑	Non-Functional

## Use Cases

for

Project Monterno

Prepared by Brandon Santiago

2/18/2021

## Revision History

1st revision: 2/18/2021

## Use Case List

Primary Actor	Use Cases
Manager	Log into Database
Manager	Make Approvals
Manager	Check Payment Status
Employee	Log into Payroll

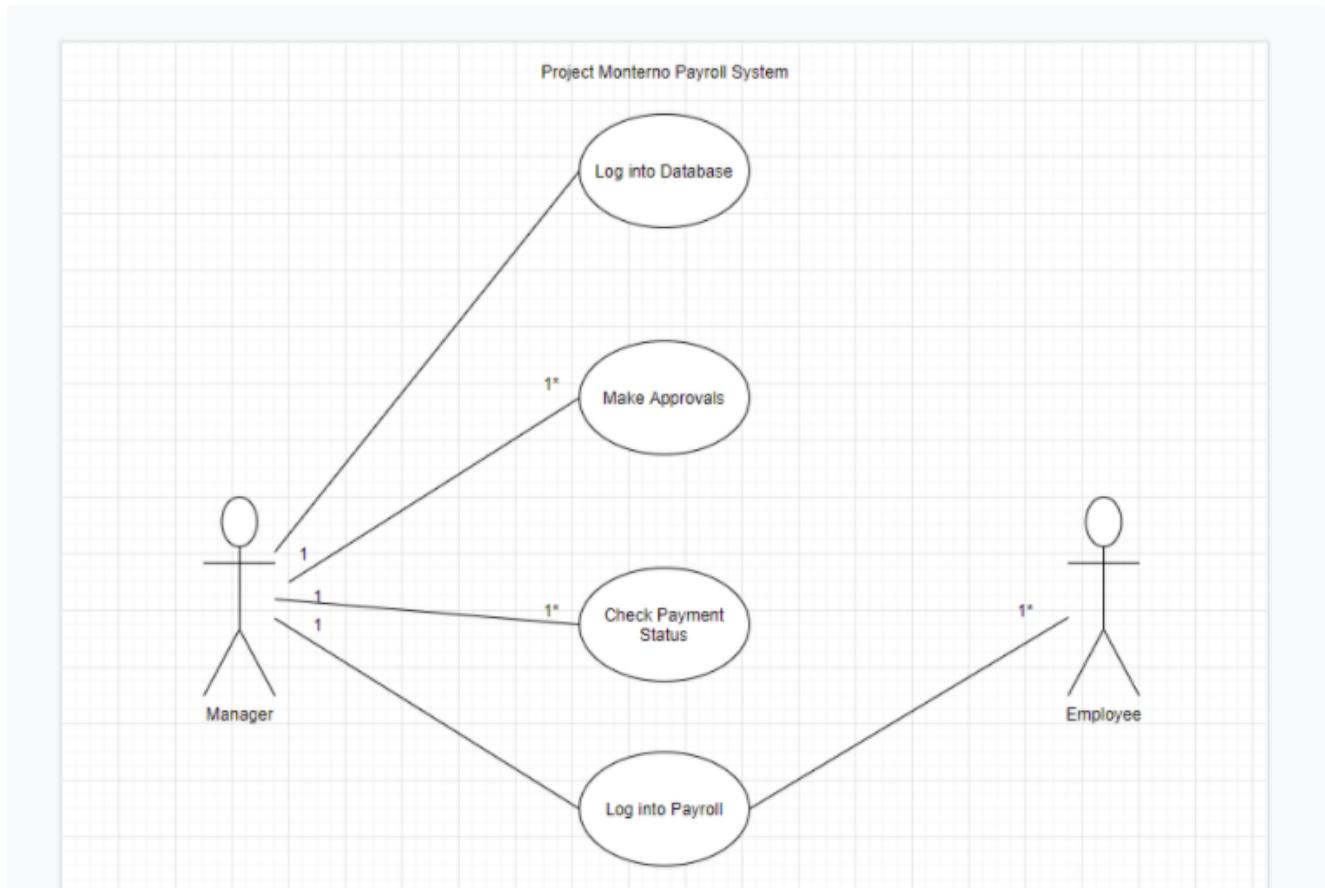
UC ID and Name:	SR-17 "Database Login"		
Created By:	Brandon Santiago	Date Created:	2/18/2021
Primary Actor:	Manager	Secondary Actors:	N/A
Description:	The manager accesses the database of the payroll system so that they can keep up to date on information and modify certain information within. The database will be organized with columns and rows and cells, similar to that of a excel spreadsheet.		
Preconditions:	<ol style="list-style-type: none"> <li>1. Manager is logged into application.</li> <li>2. Has administrative control over the application.</li> </ol>		
Postconditions:	<ol style="list-style-type: none"> <li>1. Data has been viewed.</li> <li>2. Data has been modified.</li> </ol>		
Normal Flow:	<ol style="list-style-type: none"> <li>1. Manager opens up application to check payroll employees on desktop.</li> <li>2. Manager opens up administrative controls.</li> <li>3. Logs in to administration.</li> <li>4. Opens up section with database and all employee information.</li> </ol>		
Alternative Flows:	<ol style="list-style-type: none"> <li>1. Manager is on mobile device.</li> <li>2. Manager uses application on device.</li> <li>3. Follows Normal Flow operations.</li> </ol>		

UC ID and Name:	SR-20 "Check Payment Status"		
Created By:	Brandon Santiago	Date Created:	2/18/2021
Primary Actor:	Manager	Secondary Actors:	
Description:	The payment status is a message that will show when an employee has been fully paid after doing their time at work and the payment is already added into their bank accounts or is under approval.		
Preconditions:	<ol style="list-style-type: none"> <li>1. Manager is logged into application.</li> </ol>		
Postconditions:	<ol style="list-style-type: none"> <li>1. Employee payment information has been updated.</li> <li>2. Bank retrieves information for payment.</li> </ol>		

Normal Flow:	<ol style="list-style-type: none"> <li>1. Manager opens up application to determine payment status.</li> <li>2. Opens up Employee history.</li> <li>3. Check status to see if they been paid off for the week.</li> <li>4. If not, the manager sets up payment as usual.</li> <li>5. If so, manager can move on.</li> </ol>
Alternative Flows:	<ol style="list-style-type: none"> <li>1. If manager wants to see if multiple employees have been paid off.</li> <li>2. The manager can use a sort to list employees who haven't been paid yet.</li> <li>3. Follows Normal flow operations.</li> </ol>

UC ID and Name:	SR-18 "Log into Payroll"		
Created By:	Brandon Santiago	Date Created:	2/18/2021
Primary Actor:	Employee	Secondary Actors:	
Description:	This is for employees who wish to see their own history about payments and other information regarding their payroll. They cannot modify information.		
Preconditions:	<ol style="list-style-type: none"> <li>1. Employee must be registered with system.</li> <li>2. Employee must be signed in.</li> </ol>		
Postconditions:	1. Employee has updated their information accordingly with management.		
Normal Flow:	<ol style="list-style-type: none"> <li>1. Employee uses the desktop application at worksite to see their payroll information.</li> <li>2. Employee signs into the application using the credentials they provided prior.</li> <li>3. Examines payment history.</li> <li>4. Lists all the weeks they've been paid and by whom.</li> </ol>		
Alternative Flows:	<ol style="list-style-type: none"> <li>1. Employee wants to organize search by who authorized the payments.</li> <li>2. The employee can sort the information on this list according to who authorizes the payments.</li> </ol>		

UC ID and Name:	SR-19 "Make Approvals"		
Created By:	Brandon Santiago	Date Created:	2/18/2021
Primary Actor:	Manager	Secondary Actors:	
Description:	This is to help the Manager make approvals on payments. Will consist of a yes/no type of response.		
Preconditions:	<ol style="list-style-type: none"> <li>1. Manager is logged into application.</li> <li>2. Manager has administrative controls.</li> </ol>		
Postconditions:	1. Approvals are made and the payment is sent to the bank awaiting for transfer.		
Normal Flow:	<ol style="list-style-type: none"> <li>1. Manager logs into application.</li> <li>2. Manager opens up administrative controls.</li> <li>3. Manager examines approval for an employee.</li> <li>4. Accepts approval for payment.</li> <li>5. Information sent to bank for transfer.</li> </ol>		
Alternative Flows:	<ol style="list-style-type: none"> <li>1. Manager needs to accept multiple approvals for payment.</li> <li>2. Can sort a list to see who needs approvals.</li> <li>3. Bank accepts it and makes a transfer for multiple accounts.</li> </ol>		



#### 4. Verification

Key	Summary	Verificati on Approach
SR-52	The system shall keep records of the Employees as compliant to the FLSA.	Analysis
SR-47	The system shall maintain constant internet access whenever the system is being used.	Inspection
SR-46	The system shall incorporate banks that the employees registered in the system utilize.	Analysis
SR-45	The system shall utilize databases given by APIs to maintain track of payments.	Inspection
SR-44	The system shall inquire credentials on emails from the email API.	Test
SR-43	The system shall inquire credentials on bank accounts from the bank API.	Test
SR-42	The system shall require internet access to connect to services which aid in program functions.	Test
SR-41	The system shall utilize API's that will link with banks to aid in transferring funds.	Inspection
SR-40	The system shall utilize API's that sets up an email to help in aid of password retrieval.	Test
SR-39	The system shall include documents which aims to help the user troubleshoot issues with the system.	Analysis
SR-38	The system shall utilize less RAM to prevent slowdowns on the system.	Test
SR-31	The system shall include a support button within the interface. The operator can utilize this to get into contact with one of the developers of the application.	Demonstratio n

SR-30	The system shall include a login system that will ask the user their username along with their password. In case the user forgets their information, an option will be included to retrieve the information.	Demonstration
SR-28	The system shall include a password retrieval system that sends the user their old password via their email. The operator can then utilize the system to gain access to their system once more.	Demonstration
SR-27	The system shall have incorporated buttons that will provide simple interaction. Included is a help button to help guide the operator on what each function does.	Demonstration
SR-26	The system shall include a confirmation system so that any information that has been inputted into the system will ask if the information presented is correct. The operator will then have the option to be able to accept or decline the information.	Demonstration
SR-25	The system shall have a functional button that allows quick acceptance upon validating that information is correct. A confirmation will also be included to ensure that no mistakes are being made before it is sent out.	Test
SR-24	The system shall present a payment status for the employees that are getting their salary from the organization. This will be updated whenever a payment is made on time or not. The operator will also be notified when a payment has been missed.	Demonstration
SR-23	The system shall have the functionality for the manager to make approvals for payments. This function will be present when the operator places a payment for their employees.	Demonstration
SR-22	The system shall be accessible by the manager which will help them evaluate previous payments made for employees. The information will be stored in their respective database.	Demonstration
SR-21	The system shall allow employees to access the system which will help them evaluate previous payments. The information will be stored in the respective database.	Demonstration

21 issues

## 5. Appendices

### 5.1 Assumptions and Dependencies

- The system will need to be modernized and replace the old system that exists within their business.
- The software will help improve the way operations are conducted.
- The solution may need strong computers to run.
- The business will like the software and solution.
- Existing computers may not run software.
- Program would need to run device mobility.

### 5.2 Acronyms and Abbreviations

- N/A