

Web-based SSS Contribution Portal for Employers and Individual Payors

An Implementation of Structured Query Language
Through the Reimagination of Social Security
System Web Application

A Final Project for the Course
COMP 20093 - Information Management

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BSCS 2-3

Proponents

Project Overview

This final project makes use of the Social Security System (SSS) Contributions Payment Form and applies it into a simple web-based application. The objectives of this project are to implement Normalization techniques, develop an accurate Enhanced Entity Relationship Diagram (EERD) for the said form, and demonstrate mastery in using Structured Query Language (SQL) on MySQL Workbench.

In the following pages, the proponents discuss the manual form, provide an analysis on the process in Normalization, illustrate the relationships of the form's various entity types through the Enhanced Entity Relationship Diagram, and solve 15 SQL problems of their own making based on possible requirements from the system. There are also sections for data definition, the user interface, test data, and how the system works.

This document contains the full project for the Information Management (COMP 20093) course including implementation through a web-based portal, incorporating the use of Structured Query Language in working with the data within the database management system.

Manual Form

This section discusses the selected manual form of the group.

This manual form is from the Social Security System of the Republic of the Philippines. It is a payment form for the SSS members' contributions. This form is the latest version of SSS' manual contribution form. It is a unified form from the two separate contribution forms for employers (R-5) and individual members (RS-5).

This form has some conditions that prohibit users from filling out some fields. These conditions are:

1. If a payor is an **individual member**, the payor should not fill out the fields that have a "to be filled out by employer" label (e.g., EC Contribution, Website, Employer Number, Employer Name, and Penalty for EC Contribution).
2. If a payor is an **employer**, the payor is required to fill out all of the required fields.
3. There are fields that are required for **both types of payors**, such as information about the payor (e.g., address, zip code, etc.) and some portion of payment details.

Because of these conditions, it is expected to have null or empty fields during unnormalized until first normal form.

 Republic of the Philippines SOCIAL SECURITY SYSTEM CONTRIBUTIONS PAYMENT FORM CON-01181 (05-2014) (THIS IS YOUR OFFICIAL RECEIPT WHEN VALIDATED)		PAYOR's COPY		
<p>PLEASE READ THE INSTRUCTIONS AT THE BACK BEFORE FILLING OUT THIS FORM. PRINT ALL INFORMATION IN CAPITAL LETTERS AND USE BLACK INK ONLY.</p>				
TO BE FILLED OUT BY EMPLOYER		TO BE FILLED OUT BY INDIVIDUAL PAYOR		
<input type="checkbox"/> Business <input type="checkbox"/> Household		<input type="checkbox"/> Self-Employed <input type="checkbox"/> Non-Working Spouse <input type="checkbox"/> Voluntary <input type="checkbox"/> Farmer/Fisherman <input type="checkbox"/> OFW (Foreign Address - City, Country _____)		
EMPLOYER NUMBER		SS NUMBER (10 DIGITS)	COMMON REFERENCE NUMBER (IF ANY, 12 DIGITS)	
EMPLOYER NAME		NAME		
TO BE FILLED OUT BY EMPLOYER AND INDIVIDUAL PAYOR ADDRESS (RM./FLR./UNIT NO. & BLDG. NAME) (HOUSE/LOT & BLK. NO.) (STREET NAME) (SUBDIVISION) (BARANGAY/DISTRICT/LOCALITY)				
(CITY/MUNICIPALITY)		(PROVINCE)	ZIP CODE	TAX IDENTIFICATION NUMBER (IF ANY)
TELEPHONE NUMBER (AREA CODE+TEL. NO.)		MOBILE/CELLPHONE NUMBER	E-MAIL ADDRESS	WEBSITE (FOR BUSINESS EMPLOYER)
PAYMENT DETAILS				
APPLICABLE PERIOD MONTH YEAR		SS CONTRIBUTION (TO BE FILLED OUT BY EMPLOYER & INDIVIDUAL PAYOR)	EC CONTRIBUTION (TO BE FILLED OUT BY EMPLOYER ONLY)	TOTAL (TO BE FILLED OUT BY EMPLOYER ONLY)
January P		P	P	P
February				
March				
April				
May				
June				
July				
August				
September				
October				
November				
December				
A	Penalty	P	P	P
D	Underpayment			
SUB-TOTAL		P	P	P
TOTAL AMOUNT OF PAYMENT				P
FORM OF PAYMENT <input type="checkbox"/> Cash <input type="checkbox"/> Postal Money Order <input type="checkbox"/> Check Check Number _____ Check Date _____ Bank & Branch Name _____		AMOUNT PAID IN FIGURES P _____	TOTAL AMOUNT PAID IN WORDS PAID BY _____ PRINTED NAME _____ SIGNATURE _____	
DECLARATION OF EARNINGS OF INDIVIDUAL PAYOR				
I hereby declare, for purposes of Sec. 19-A of the Social Security Law the amount of (P _____) as my monthly earnings, which shall be the basis of my monthly salary credit to be effective until revised in my next declaration. I affirm under the penalties of perjury, that this declaration has been made in good faith, and to the best of my knowledge and belief, is true and correct.				
PRINTED NAME OF MEMBER			SIGNATURE OF MEMBER	

Normalization

This section examines the normalization procedure for the given form. Refer to this link to see the full decomposition of tables into their proper form:

[Normalization](#)

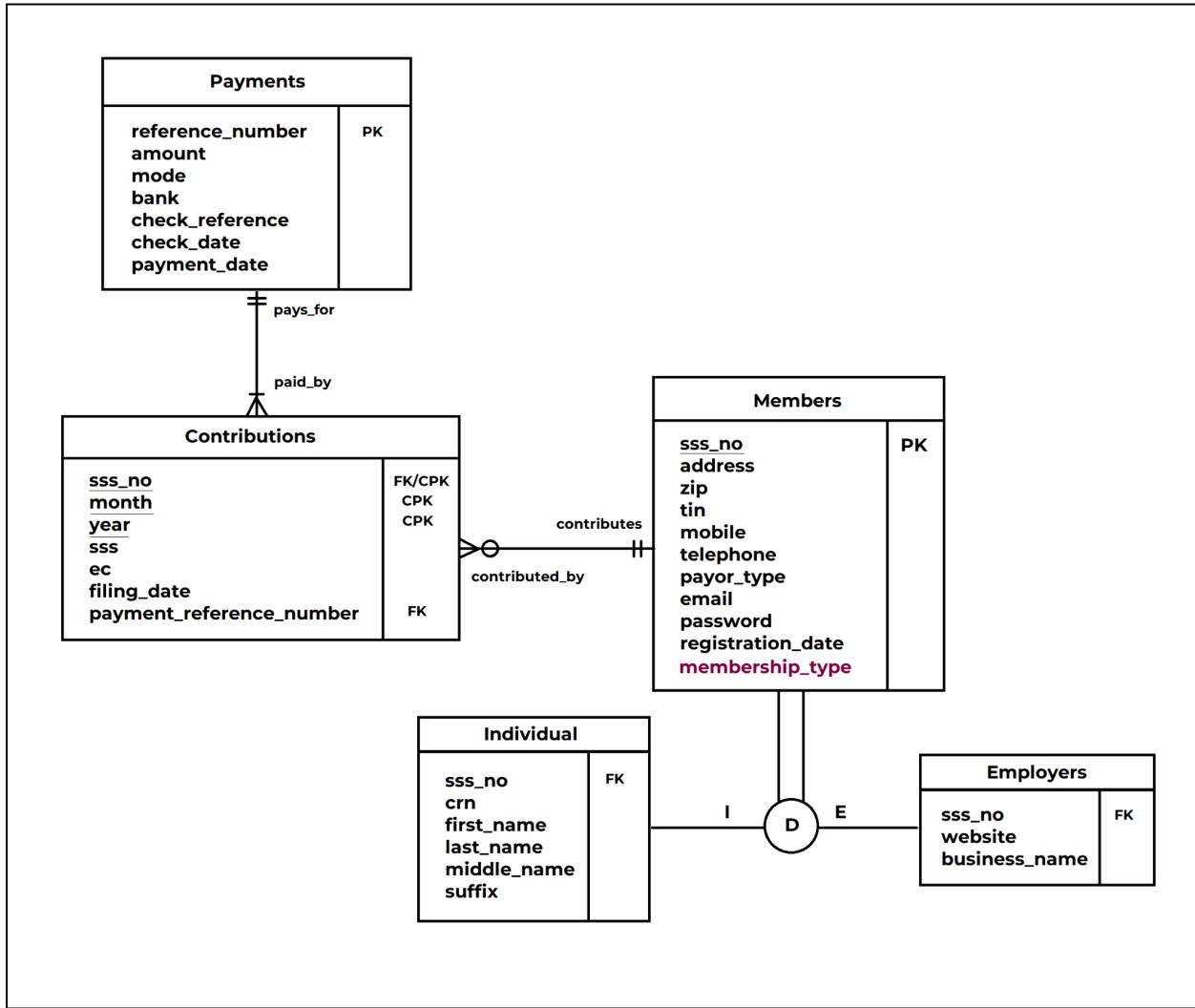
In the unnormalized form (UNF), the example data set provides the information about the members. The data set also includes the shared contributions of a member for a particular period. The payments for the contributions are also included in the fields, as well as its mode of payment, bank name if paid through bank or check, and check information if paid using check.

The candidate attributes to become primary keys in the first normal form (1NF) are SSNumber, Year, and Month; these attributes generate unique values throughout the form. In addition, multivalued attributes are removed in this process.

The second normal form (2NF), the partial dependencies are removed. The 2NF produces two tables, the first table contains information of members and the second table handles information of all paid contributions. In the table of contributions, the SSNumber attribute is added to become part of the composite primary key and foreign key that points to the payor at the same time. In addition, there are transitive dependencies in both tables that will be decomposed in the third normal form.

In the third normal form (3NF), the transitive dependencies are removed. Moreover, the foreign keys are added to the respective tables where transitive dependencies came from to maintain the relationship between the tables. Therefore, three tables are created, these tables are Members, Contributions, and Payments.

Enhanced Entity-Relationship Diagram



This section illustrates the Enhanced Entity Relationship Diagram of the given form.

Based upon the result of decomposition on the third normal form (3NF), three tables were created which are: Members, Contributions, and Payments.

Apparently, this form has two types of payors namely: individual payors and employer payors, which are the two categories of members. In this case, the 'Members' table was specialized to have two subtypes, 'Individual' and 'Employers'. Instances of the supertype 'Members' should only be in one of the two given subtypes, utilizing the total specialization rule as the completeness constraint. At the same time, instances cannot

simultaneously be in multiple subtypes, utilizing the disjoint rule as the disjointness constraint.

In the diagram, the member entity is linked to the contributions table. Members may file a contribution for multiple periods (i.e. January to March) (**optional many**) at one time. However, a contribution shall be filed only by one member (**mandatory one**).

Consequently, there is still another table, the Payments table, which has a relation to the Contributions table. When there is a contribution, there shall be a Payment Reference Number, which will become the foreign key to link to the aforesaid table. Seemingly, the cardinality of the Contributions table towards the Payments table is **mandatory one** or in other words, a contribution is always paid through a single payment transaction. And conversely, the two have a cardinality of **mandatory many**, which means, when a payment is done, it is always linked to at least one or can be many contributions. Finally, that concludes the Enhanced Entity Relationship Diagram of the SSS Contribution Manual Form.

Data Dictionary

Members

Name	Type	Length	Allowable Values	Description
sss_no	BigInt			10 digit SSS number of the member
address	Varchar	100		Home address of the member
zip	Char	4		Zone Improvement Plan code
tin	Varchar	12		Taxpayer Identification Number
mobile	Varchar	11		Mobile number of the member

telephone	Varchar	15		Telephone number of the member
payor_type	Varchar	18	Individual, Employer	Payor type of the member
email	Varchar	100		Email address of the member
password	Varchar	72		Account password of the member
registration_date	Timestamp			Date of registration of the member

Individual Payor

Name	Type	Length	Allowable Values	Description
sss_no	BigInt			SSS ID of the individual payor
crn	Char	12		Common Reference Number
first_name	Varchar	30		First name of the individual payor
last_name	Varchar	30		Last name of the individual payor
middle_name	Varchar	30		Middle name of the individual payor
suffix	Varchar	10		Suffix of the individual payor

Employer Payors

Name	Type	Length	Allowable Values	Description
sss_no	Varchar	30		SSS ID of the employer payor
website	Varchar	255		Website of the business
business_name	Varchar	75		Name of the business

Contributions

Name	Type	Length	Allowable Values	Description
sss_no	BigInt			SSS ID of the individual payor
month	Varchar	9		Numerical month number of when contribution was made
year	Year	2		Year the contribution was made
sss	Decimal	11, 2		Amount of SSS contribution that is being transacted
ec	Decimal	11, 2		Employer Compensation
filing_date	Timestamp			Date the contribution was filed

payment_reference_number	BigInt			Reference number for payment
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Payments

Name	Type	Length	Allowable Values	Description
reference_number	BigInt			Reference number for payment
amount	Decimal	12, 2		Amount of paid contribution
mode	Varchar	5	Cash, Check, Bank	The mode how the payment was made
bank	Varchar	45		The Bank where the transaction was made
check_reference	Varchar	15		A unique identification number printed on a check
check_date	Date			Date the check was made
payment_date	Timestamp			Date the payment was made

SQL Statements

5 Easy Problems:

1. Display all records of payments made through cash or check and paid after 2015.

```
SELECT *
FROM payments
WHERE mode IN ('cash', 'check') AND YEAR(payment_date) > 2015;
```

2. Display all records of members who live in Manila or whose payor type is 'business'.

```
SELECT *
FROM members
WHERE payor_type = 'business' OR address LIKE '%Manila%';
```

3. Display the SSS number, month, and year of SSS contribution with a contribution less than Php 1000.

```
SELECT sss_no, month, year  
FROM contributions  
WHERE sss <= 1000;
```

	sss_no	month	year
▶	100000083	august	2023
	100000083	july	2023
	100000084	august	2023
	100000084	december	2023
	100000084	july	2023
	100000084	november	2023
	100000084	october	2023
	100000084	september	2023
	100000085	august	2023
	100000085	july	2023
	100000085	october	2023
	100000085	september	2023
	100000087	december	2019
	100000087	july	2019
	100000087	november	2019
	100000089	september	2023
	100000090	august	2017
	100000090	july	2017
	100000090	october	2017
	100000090	september	2017
*	HULL	HULL	HULL

4. Display the payor's reference number, check reference number, and check date of those who paid with a check at Landbank of the Philippines.

```
SELECT reference_number, check_reference, check_date  
FROM payments  
WHERE mode = 'check' AND bank = 'Landbank of the Philippines';
```

Result Grid | Filter Rows: Edit: Export/Import: Wrap Cell Content:

	reference_number	check_reference	check_date
▶	1049	VV-97FM-00	2019-12-24
▶	1051	AE-669F-FR	2021-05-06
*	HULL	NULL	NULL

5. Display all records of members who are not in the business payor type.

```
SELECT *
FROM members
WHERE NOT payor_type = 'business';
```

Result Grid | Filter Rows: Edit: Export/Import: Wrap Cell Content:

sss_no	address	zip	tin	mobile	telephone	payor_type	email	password	registration_date
100000083	76 sto. nifio street. barangay, San Isidro Antipolo...	1870	09667637120			self-employed	yim.gwynethmarie@gmail.com	\$2b\$0\$453mIOfgfSzgenOFc.ZbWU2vWfluOrzD...	2023-07-20 13:34:04
100000084	14340 Governors Drive Banca, Carmona, Cavite	4116	383428801000	09953523833	2124567890	self-employed	levardo.johnrace1128@gmail.com	\$2b\$0\$48L38Jshu8T5YxJ3KubMducImabxU/Sf...	2023-07-20 13:41:39
100000087	172 Julian Felipe Street, Sangandaan, Caloocan...	1402	136447445855	09063472242	0622587	self-employed	markkalendario@gmail.com	\$2b\$0\$45.eXnOUWw5jZgShAAIqfpPg.f2UNgSIVu...	2019-07-20 13:56:51
100000088	Roxas Ave, Diliman, Quezon City, Metro Manila	1101		09910257463		voluntary	idly022018@gmail.com	\$2b\$0\$49vZokuSZ2mrRbobshOmlR0l832WUOf...	2023-07-20 13:59:19
100000089	560 Mansanas Street, Marikina City, Metro Manila	1600	150036005874	09064744223	0266582	ofw	danessamae@gmail.com	\$2b\$0\$4\$fnVgtQcSpNMGTsX2k/IBJuhuJ8KndANk...	2023-07-20 14:03:06
*	HULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

5 Moderate Problems:

1. Count how many contributions were made for the year 2019 by month.

```
SELECT month AS 'Months in 2019', COUNT(*) AS 'No. of Contributions Made'
FROM contributions
WHERE year = 2019
GROUP BY 1;
```

Result Grid | Filter Rows: Edit: Export/Import: Wrap Cell Content:

	Months in 2019	No. of Contributions Made
▶	august	2
	july	2
	october	2
	september	2
	december	1
	november	1

2. Count how many contributors paid using a check at the Bank of the Philippine Islands.

```
SELECT bank, mode, COUNT(*)
FROM payments
WHERE mode = 'check' AND bank = 'Bank of the Philippine Islands'
GROUP BY bank, mode;
```

	bank	mode	COUNT(*)
▶	Bank of the Philippine Islands	check	2

3. Get the average salary of contributions made for the year 2023 by month and display only if the average is greater than 1000. Sort by the average in descending order.

```
SELECT month AS 'Months in 2023', AVG(sss) AS 'Average of Contributions
Made'
FROM contributions
WHERE year = 2023
GROUP BY 1
HAVING AVG(sss) > 1000
ORDER BY 2 DESC;
```

	Months in 2023	Average of Contributions Made
▶	november	333978.333333
	august	2360.000000
	july	1950.000000

4. Find the sum of payments made by mode. Display only if they have a sum greater than Php 100000.

```

SELECT mode, SUM(amount)
FROM payments
GROUP BY 1
HAVING SUM(amount) > 100000;

```

	mode	SUM(amount)
▶	cash	2094679.00
	check	3534150.50

5. Display the SSS number, month, year, and contribution of those who filed in 2019 to 2023 and paid a minimum of Php 5000. Sort by year in descending order.

```

SELECT sss_no, month, year, sss
FROM contributions
WHERE year(filing_date) BETWEEN 2019 AND 2023 AND sss >= 5000
ORDER BY 3 DESC;

```

	sss_no	month	year	sss
▶	100000085	november	2023	1000000.00
	100000088	august	2023	8000.00
	100000088	july	2023	6000.00
	100000086	august	2019	650000.00
	100000086	july	2019	650000.00
	100000086	october	2019	1000000.00
	100000086	september	2019	650000.00
*	NULL	NULL	NULL	NULL

5 Difficult Problems:

1. Display the full names and email addresses of individual payors who are self-employed.

```

SELECT concat(first_name, ' ', middle_name, ' ', last_name) AS 'Name of Payor',
email AS 'Email Address'
FROM members AS m, individual AS i
WHERE m.sss_no = i.sss_no AND payor_type = 'self-employed';

```

	Name of Payor	Email Address
▶	Gwyneth Anmarie Cabral Yim	yim.gwynethanmarie@gmail.com
	John Race Trinidad Levardo	levardo.johnrace1128@gmail.com
	Mark Kenneth Salinas Calendario	markcalendario@gmail.com

2. Display the individual payors' SSS number, full name, address, zip, tin, mobile number, email, and payor_type.

```

SELECT m.sss_no, concat(first_name, ' ', middle_name, ' ', last_name) AS 'Individual Payor', address, zip, tin, mobile, email, payor_type
FROM individual as i, members as m
WHERE i.sss_no = m.sss_no;

```

sss_no	Individual Payor	address	zip	tin	mobile	email	payor_type
100000083	Gwyneth Anmarie Cabral Yim	76 sto. niño street, barangay. San Isidro Antipol...	1870		09667637120	yim.gwynethanmarie@gmail.com	self-employed
100000084	John Race Trinidad Levardo	14340 Governors Drive Bancal, Carmona, Cavite	4116	383428801000	09953523833	levardo.johnrace1128@gmail.com	self-employed
100000087	Mark Kenneth Salinas Calendario	172 Julian Felipe Street, Sangandaan, Caloocan...	1402	136447445855	09063472242	markcalendario@gmail.com	self-employed
100000088	Caridad Sonia Herrera	Roxas Ave, Diliman, Quezon City, Metro Manila	1101		09910257463	idily022018@gmail.com	voluntary
100000089	Danessa Mae Salinas Calendario	560 Mansanas Street, Marikina City, Metro Manila	1600	150036005874	09064744223	danessamae@gmail.com	ofw

3. Display the business name and count how many times they contributed for the year 2023.

```

SELECT business_name, COUNT(*)
FROM employers as e, contributions as c
WHERE e.sss_no = c.sss_no AND year = 2023
GROUP BY 1;

```

business_name	COUNT(*)
The Coders	5

4. Find the lowest and highest payment made by employers. Display the name of the business as well as their website and the total amount of their EC. Sort by the name of the business.

```
SELECT business_name, website, SUM(ec), MIN(amount), MAX(amount)
FROM employers as e, contributions as c, payments as p
WHERE e.sss_no = c.sss_no and c.payment_reference_number = p.reference_number
GROUP BY business_name, website
ORDER BY 1;
```

	business_name	website	SUM(ec)	MIN(amount)	MAX(amount)
▶	Ben's Halo-halo	benshalolo.com.ph	3000.00	15000.00	15000.00
	The Coders	thecoders.com.ph	1001600.00	3200.00	2000000.00
	The Programmer Corporation	https://theprogrammer.com	560000.00	3510000.00	3510000.00
	Unwind Cafe	unwindcafe.com.ph	70000.00	50000.00	70000.00

5. Find the average of SSS and EC by payment reference number. Display only those that were paid from 2019 to 2024 and have a payment reference number that ranges from 1040 to 1049. Sort by the payment reference number in ascending order.

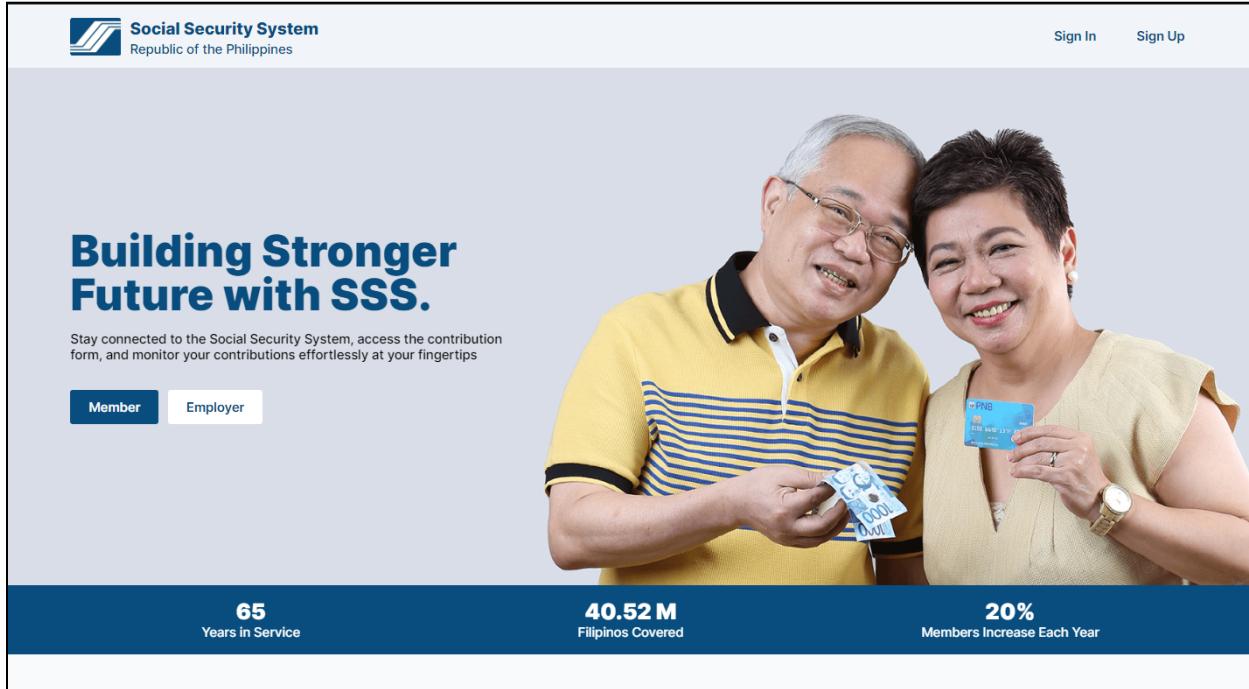
```
SELECT c.payment_reference_number, AVG(sss + ec)
FROM contributions AS c, payments AS p
WHERE c.payment_reference_number = p.reference_number AND year
BETWEEN 2019 AND 2024
GROUP BY 1
HAVING c.payment_reference_number BETWEEN 1040 and 1049
ORDER BY 1;
```

Result Grid | Filter Rows:

	payment_reference_number	AVG(sss + ec)
▶	1044	NULL
	1045	NULL
	1046	800.000000
	1047	NULL
	1048	2000000.000000
	1049	877500.000000

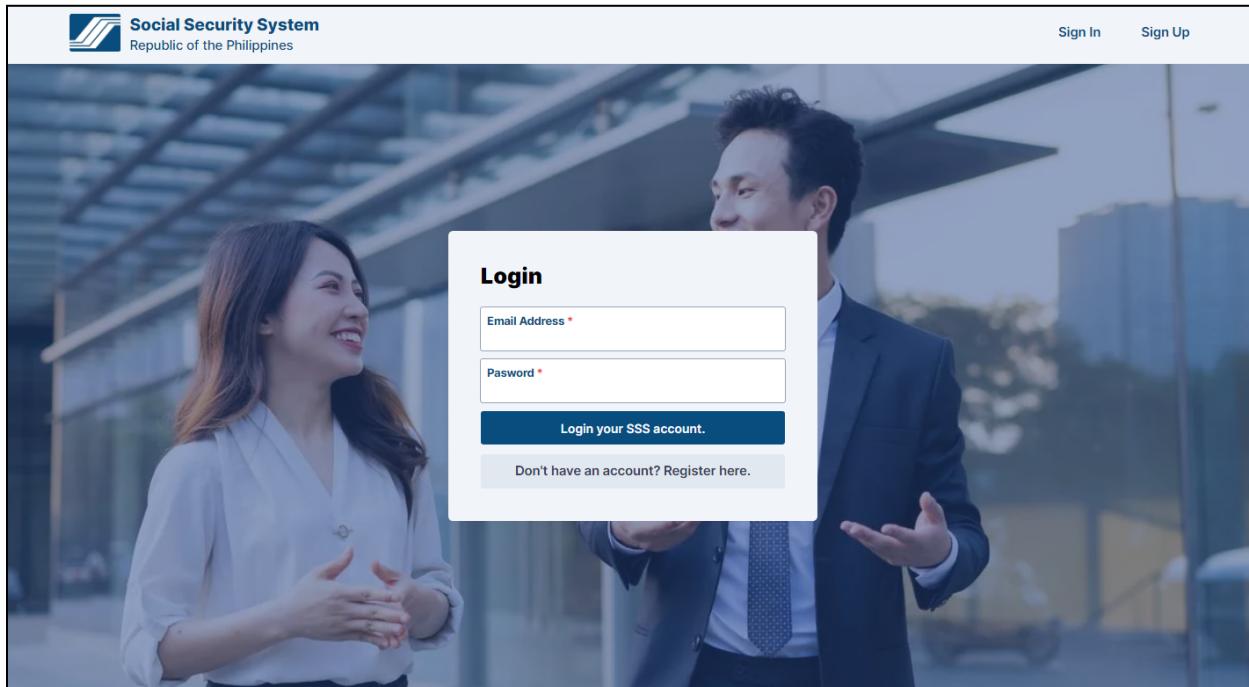
User Interface

Landing Page



The landing page for the Social Security System (SSS) features a large banner with the text "Building Stronger Future with SSS." and a photo of an elderly couple holding a bank card and a small booklet. Below the banner are two buttons: "Member" and "Employer". At the bottom, there are three statistics: "65 Years in Service", "40.52 M Filipinos Covered", and "20% Members Increase Each Year". The top right corner has "Sign In" and "Sign Up" links.

Login Page



The login page for the SSS features a background image of a man and a woman smiling. Overlaid on the image is a white login form with the title "Login". It contains fields for "Email Address *" and "Password *", a "Login your SSS account." button, and a link "Don't have an account? Register here.". The top right corner has "Sign In" and "Sign Up" links.

[Register Page] Membership Type Selector

 Social Security System
Republic of the Philippines

[Sign In](#) [Sign Up](#)

Membership Type

Choose what type of contributor you are.



I'm an individual member.
Self-employed, Voluntary, OFW, Non-working Spouse, Fisherman



I'm an employer.
An employer for business or household.

 Social Security System

Developers
Calendario, Mark Kenneth
Levardo, John Race

Technologies Used
Next JS – User Interface
Express JS – Backend

[Register Page] Individual Member

 Social Security System
Republic of the Philippines

[Sign In](#) [Sign Up](#)

Registration Form for Individual Member

Please fill-out the form accurately. Input fields with asterisk (*) are required.

Basic Information

First Name *

Middle Name *

Last Name *

Suffix (Jr., Sr., etc.)

[Next](#)

Form Steps

Complete these sections to create your SSS individual member account.

Basic Information

Contact Information

Other Details

Account Details

 Social Security System
Republic of the Philippines

Developers
Calendario, Mark Kenneth
Levardo, John Race
Ong, Zoe Tatiana
Yim, Gwyneth Anmarie

Technologies Used
Next JS – User Interface
Express JS – Backend
Node JS – Development Environment
MySQL – Database

[Register Page] Employer

 Social Security System
Republic of the Philippines

[Sign In](#) [Sign Up](#)

Registration Form for Employers
Please fill-out the form accurately. Input fields with asterisk (*) are required.

Employer Information

Employer Name (Business Name / Name of Employer Household) *

[Next](#)

Form Steps
Complete these sections to create your SSS employer member account.

Employer Information

Contact Information

Other Details

Account Details

 Social Security System
Republic of the Philippines

[Visit this project.](#)

Developers
Calendario, Mark Kenneth
Levardo, John Race
Ong, Zoe Tatiana
Yim, Gwyneth Anmarie

Technologies Used
Next JS – User Interface
Express JS – Backend
Node JS – Development Environment
MySQL – Database

*This is not a legitimate website of Social Security System. This website is intended solely for educational purposes only.
Some images in this website are belong to the Social Security System webpage.*

Home Dashboard [Individual and Employers]

 [Home](#) [SSS/EC Contribution History](#) [File an SSS/EC Contribution](#) [Pending Payment](#)

Welcome **Mark Kenneth Salinas Calendario**
You are logged in as an individual member.

Friday **12:29:50 AM**
July 21, 2023

Your Information

Basic Information	
SSS Number	100000087
CRN	586002521445
TIN	136447445855
Payor Type	SELF-EMPLOYED

Contact Information	
Complete Address	172 Julian Felipe Street, Sangandaan, Caloocan City
Zip Code	1402
Mobile Number	09063472242
Telephone Number	0622587
Email Address	markcalendario@gmail.com

Contribution History Dashboard [Individual and Employers]

The screenshot shows a dashboard titled "Contribution History". On the left sidebar, there are links: Home, SSS/EC Contribution History (which is highlighted), File an SSS/EC Contribution, and Pending Payment. The main content area has a title "Contribution History" and a subtitle "List of paid contribution since you joined SSS." Below this is a table with columns: Period, SSS Contribution, Mode of Payment, and Paid Date.

Period	SSS Contribution	Mode of Payment	Paid Date
December 2019	₱ 1,000	CHECK LANDBANK OF THE PHILIPPINES	Oct 20, 2019 1:59 PM
November 2019	₱ 1,000	CHECK LANDBANK OF THE PHILIPPINES	Oct 20, 2019 1:59 PM
October 2019	₱ 1,500	CHECK LANDBANK OF THE PHILIPPINES	Oct 20, 2019 1:59 PM
September 2019	₱ 1,500	CASH	Jul 20, 2019 1:58 PM
August 2019	₱ 1,500	CASH	Jul 20, 2019 1:58 PM
July 2019	₱ 1,000	CASH	Jul 20, 2019 1:58 PM

Dashboard for Filing a Contribution [Individual and Employers] (1)

The screenshot shows a dashboard titled "Contribution Filing". On the left sidebar, there are links: Home, SSS/EC Contribution History, File an SSS/EC Contribution (which is highlighted), and Pending Payment. The main content area has a title "Contribution Filing" and a section titled "Guide" with the sub-instruction "Select the period(s) you want to pay." Below this is a table with columns: Month, Year, and Select.

Month	Year	Select
July	2023	<input type="button" value="Select"/>
August	2023	<input type="button" value="Select"/>
September	2023	<input type="button" value="Select"/>
October	2023	<input type="button" value="Select"/>
November	2023	<input type="button" value="Select"/>
December	2023	<input type="button" value="Select"/>
January	2024	<input type="button" value="Select"/>
February	2024	<input type="button" value="Select"/>
March	2024	<input type="button" value="Select"/>

Dashboard for Filing a Contribution [Individual and Employers] (2)

The screenshot shows a web-based application for filing contributions. On the left sidebar, there are links for Home, SSS/EC Contribution History, File an SSS/EC Contribution (which is highlighted in a grey box), and Pending Payment. The main content area has a title 'Finalize Contribution'. Below it is a table with three rows, each representing a month from July 2023 to September 2023. Each row has two columns: 'SSS Contribution' and 'EC Contribution', both with 'Amount' input fields. At the bottom are two buttons: '« Restart' and 'Finalize and Submit'.

Month	SSS Contribution	EC Contribution
July 2023	Amount	Amount
August 2023	Amount	Amount
September 2023	Amount	Amount

Payment Dashboard [Individual and Employers]

The screenshot shows a payment dashboard. The sidebar includes Home, SSS/EC Contribution History, File an SSS/EC Contribution (highlighted), and Pending Payment. The main area has a title 'Pay a Contribution' with a sub-instruction 'You are obliged to pay the listed contribution below.' Below this is a box showing a total amount of '₱ 17100.00' and a note 'Please pay exact amount.' A table lists contributions for September, August, and July 2023, showing amounts to pay and filing dates. At the bottom is a red button 'Unfile Contribution' and a section titled 'Payment Section' with three options: 'Pay using Cash', 'Pay using Check', and 'Pay through Bank'.

Period	SSS Contribution	EC Contribution	Filing Date
September 2023	Amount to Pay 4500.00	Amount to Pay 3000.00	Filing Date July 21, 2023, 12:34 AM
August 2023	Amount to Pay 3600.00	Amount to Pay 1200.00	Filing Date July 21, 2023, 12:34 AM
July 2023	Amount to Pay 3600.00	Amount to Pay 1200.00	Filing Date July 21, 2023, 12:34 AM

Tagline / Footer / Disclaimer Section

Maaasahang Proteksyon Sa Panahon Ng Pangangailangan



Social Security System
Republic of the Philippines

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Developers

Calendario, Mark Kenneth
Levardo, John Race
Ong, Zoe Tatiana
Yim, Gwyneth Anmarie

Technologies Used

Next JS – User Interface
Express JS – Backend
Node JS – Development Environment
MySQL – Database

*This is not a legitimate website of Social Security System. This website is intended solely for educational purposes only.
Some Images in this website are belong to the Social Security System webpage.*

Test Data

The test data of this project is manually created synchronously using the web application of this project. The images below are the data and are separated by tables.

Members Table

	sss_no	address	zip	tin	mobile	telephone	payor_type	email	password	registration_date
▶	100000083	76 sto. niño street. barangay. San Isidro Antipolo...	1870	09667637120			self-employed	yim.gwynethanmarie@gmail.com	\$2b\$04\$J...	2023-07-20 13:34:04
	100000084	14340 Governors Drive Bancal, Carmona, Cavite	4116	383428801000	09953523833	2124567890	self-employed	levardo.johnrace1128@gmail.com	\$2b\$04\$L...	2023-07-20 13:41:39
	100000085	76 sto. niño street. Barangay San Isidro Antipo...	1870	09667637120			business	emika100802@gmail.com	\$2b\$04\$W...	2023-07-20 13:41:47
	100000086	150 Sampaguita Street, Manila, Metro Manila	1950	159855474141	09293203077	026647441	business	tpc@tpc.com	\$2b\$04\$22...	2019-07-20 13:42:14
	100000087	172 Julian Felipe Street, Sangandaan, Caloocan...	1402	136447445855	09063472242	0622587	self-employed	markcalendario@gmail.com	\$2b\$04\$e...	2019-07-20 13:56:51
	100000088	Roxas Ave, Diliman, Quezon City, Metro Manila	1101	09910257463			voluntary	idily022018@gmail.com	\$2b\$04\$Vz...	2023-07-20 13:59:19
	100000089	560 Mansanas Street, Marikina City, Metro Manila	1600	150036005874	09064744223	0266582	ofw	danessamae@gmail.com	\$2b\$04\$N...	2023-07-20 14:03:06
	100000090	14328 Privet Drive, Mabuhay, Carmona, Cavite	4116	123676678542	09862157588	2124567878	business	benshalolo@gmail.com	\$2b\$04\$Xl...	2017-03-20 14:05:16
	100000091	Sumulong Highway, Antipolo City	1870	09123456789			business	connect@unwindcafe.com	\$2b\$04\$Pr...	2015-01-26 12:19:24

Individual Table

	sss_no	crn	first_name	last_name	middle_name	suffix
▶	100000083		Gwyneth Anmarie	Yim	Cabral	
	100000084	123794796877	John Race	Levardo	Trinidad	
	100000087	586002521445	Mark Kenneth	Calendario	Salinas	
	100000088		Caridad	Herrera	Sonia	
	100000089	158559669822	Danessa Mae	Calendario	Salinas	

Employers Table

	sss_no	website	business_name
▶	100000085		The Coders
	100000086	https://theprogrammer.com	The Programmer Corporation
	100000090	benshalolo.com.ph	Ben's Halo-halo
	100000091		Unwind Cafe

Contributions Table

sss_no	month	year	sss	ec	filing_date	payment_reference_number
100000091	august	2015	10000.00	15000.00	2015-07-20 14:10:23	1056
100000091	july	2015	10000.00	15000.00	2015-07-20 14:10:23	1056
100000091	october	2015	15000.00	20000.00	2015-07-20 14:11:35	1057
100000091	september	2015	15000.00	20000.00	2015-07-20 14:11:35	1057
100000090	august	2017	1000.00	250.00	2017-07-20 14:07:32	1055
100000090	december	2017	2000.00	500.00	2017-07-20 14:07:32	1055
100000090	february	2018	2000.00	500.00	2017-07-20 14:07:32	1055
100000090	january	2018	2000.00	500.00	2017-07-20 14:07:32	1055
100000090	july	2017	1000.00	250.00	2017-07-20 14:07:32	1055
100000090	november	2017	2000.00	500.00	2017-07-20 14:07:32	1055
100000090	october	2017	1000.00	250.00	2017-07-20 14:07:32	1055
100000090	september	2017	1000.00	250.00	2017-07-20 14:07:32	1055
100000086	august	2019	650000.00	120000.00	2019-07-20 13:49:49	1049
100000086	july	2019	650000.00	120000.00	2019-07-20 13:49:49	1049
100000086	october	2019	1000000.00	200000.00	2019-07-20 13:49:49	1049
100000086	september	2019	650000.00	120000.00	2019-07-20 13:49:49	1049
100000087	august	2019	1500.00	NULL	2019-07-20 13:58:30	1050
100000087	july	2019	1000.00	NULL	2019-07-20 13:58:30	1050
100000087	september	2019	1500.00	NULL	2019-07-20 13:58:30	1050
100000087	december	2019	1000.00	NULL	2019-10-20 13:59:08	1051
100000087	november	2019	1000.00	NULL	2019-10-20 13:59:08	1051
100000087	october	2019	1500.00	NULL	2019-10-20 13:59:08	1051
100000083	july	2023	350.00	NULL	2023-07-20 13:36:06	1044
100000083	august	2023	400.00	NULL	2023-07-20 13:37:17	1045
100000085	august	2023	400.00	400.00	2023-07-20 13:43:43	1046

sss_no	month	year	sss	ec	filing_date	payment_reference_number
100000085	july	2023	400.00	400.00	2023-07-20 13:43:43	1046
100000085	october	2023	400.00	400.00	2023-07-20 13:43:43	1046
100000085	september	2023	400.00	400.00	2023-07-20 13:43:43	1046
100000084	august	2023	500.00	NULL	2023-07-20 13:47:56	1047
100000084	december	2023	321.00	NULL	2023-07-20 13:47:56	1047
100000084	july	2023	500.00	NULL	2023-07-20 13:47:56	1047
100000084	november	2023	435.00	NULL	2023-07-20 13:47:56	1047
100000084	october	2023	723.00	NULL	2023-07-20 13:47:56	1047
100000084	september	2023	650.00	NULL	2023-07-20 13:47:56	1047
100000085	november	2023	1000000.00	1000000.00	2023-07-20 13:49:37	1048
100000088	august	2023	8000.00	NULL	2023-07-20 14:01:04	1052
100000088	july	2023	6000.00	NULL	2023-07-20 14:01:04	1052
100000089	april	2024	1600.00	NULL	2023-07-20 14:04:10	1053
100000089	august	2023	2500.00	NULL	2023-07-20 14:04:10	1053
100000089	december	2023	1300.00	NULL	2023-07-20 14:04:10	1053
100000089	february	2024	1600.00	NULL	2023-07-20 14:04:10	1053
100000089	january	2024	1600.00	NULL	2023-07-20 14:04:10	1053
100000089	july	2023	2500.00	NULL	2023-07-20 14:04:10	1053
100000089	june	2024	1750.50	NULL	2023-07-20 14:04:10	1053
100000089	march	2024	1600.00	NULL	2023-07-20 14:04:10	1053
100000089	may	2024	1600.00	NULL	2023-07-20 14:04:10	1053
100000089	november	2023	1500.00	NULL	2023-07-20 14:04:10	1053
100000089	october	2023	1700.00	NULL	2023-07-20 14:04:10	1053
100000089	september	2023	1000.00	NULL	2023-07-20 14:04:10	1053
100000089	july	2024	1500.00	NULL	2023-07-20 14:04:51	1054
100000086	august	2023	3600.00	1200.00	2023-07-21 00:34:05	NULL
100000086	july	2023	3600.00	1200.00	2023-07-21 00:34:05	NULL
100000086	september	2023	4500.00	3000.00	2023-07-21 00:34:05	NULL

Payments Table

reference_number	amount	mode	bank	check_reference	check_date	payment_date
1044	350.00	cash		NULL	2023-07-20 13:36:36	
1045	400.00	check	Bank of the Philippine Islands	AA-0024-RR	2024-07-07	2023-07-20 13:37:39
1046	3200.00	cash		NULL	2023-07-20 13:45:25	
1047	3129.00	cash		NULL	2023-07-20 13:48:11	
1048	2000000.00	cash		NULL	2023-07-20 13:49:57	
1049	3510000.00	check	Landbank of the Philippines	VV-97FM-00	2019-12-24	2019-07-20 13:51:20
1050	4000.00	cash		NULL	2019-07-20 13:58:41	
1051	3500.00	check	Landbank of the Philippines	AE-669F-FR	2021-05-06	2019-10-20 13:59:48
1052	14000.00	cash		NULL	2023-07-20 14:01:22	
1053	20250.50	check	Bank of the Philippine Islands	CH-RR65-FF	2024-03-05	2023-07-20 14:04:26
1054	1500.00	bank	Landbank of the Philippines		NULL	2023-07-20 14:04:56
1055	15000.00	bank	Bank of the Philippine Islands		NULL	2017-07-20 14:07:44
1056	50000.00	bank	China Bank		NULL	2015-07-20 14:10:40
1057	70000.00	cash		NULL	NULL	2015-07-20 14:12:02