

Survey Web Application

CIS-17B Spring 2023
June 06, 2023
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Introduction

This program simulates a survey with three multiple choice options to choose from. The application was originally created as a C++ program, and then it was converted to a web application that leverages JavaScript, PHP, and a MySQL database.

Objective

Answer a series of questions and view a chart based on an accumulation of the user's answers in the database.

Rules

- A user must sign-up for an account.
- A registered user must login to their account correctly to take the survey.
- Answer every question once and submit survey to view a chart.

Development Summary

Objectives Completed

- The signup form creates a sign-up cookie and inserts a new record into my database, then it redirects the user to login.html.
- The login form creates a login cookie and returns the record that matches the email in my database, then it redirects the user to survey.html.
- Converted C++ classes to JavaScript objects: User, Survey, Votes, Questions.

Objectives Incomplete

I ran out of time.

- It needs to update the player's votes in the database. Assests > php > DBUpdate.php only works for a static cookie, but I need to call it after a user submits their survey.

GitHub Repository

<https://github.com/koa2019/survey>

- **Latest version:** survey_php_v5
- I'm going to keep working on it after I submit it tonight, so my GitHub will have the most current working version.

Run Configuration Setup

Refer to survey_html_code > docs_survey_html > setupSurveyWebApp_demo.pdf

Sample Sign Up and Login

Sign Up Sample Inputs/Outputs

Sunday, June 11, 2023 7:47 PM

Create Account

danielle

danielle@email.com

Sign Up

Already have an account? Sign in

1. Sign up



2. Set new user cookie



3. Read Cookie

user_votes_4 - surveyDB_2 - OpenOffice Base: Table Data View

id	first_name	email	password	votes0	votes1	votes2
1	Homer	homer@: Homer!	23	2	2	2
2	Marge	marge@: Marge!	23	1	1	1
3	Lisa	lisa@simj	Lisa!234	2	2	2
4	Bart	bart@sim	Bart!234	1	2	2
5	Maggie	maggie@	Maggie!23	1	1	1
6	Krusty	krusty@s	Krusty!23	1	1	2
21	danielle	danielle@	dan	2	2	0

4. Confirm record updated in database

Login Sample Inputs/Outputs

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1. Login with a preset user's credentials or with a user created on sign up form

2. Login cookie set

id	name	email	password	votes0	votes1	votes2
4	Bart	bart@simp.com	Bart!234	1	2	2

Take Survey

3. Query database by email

Take survey

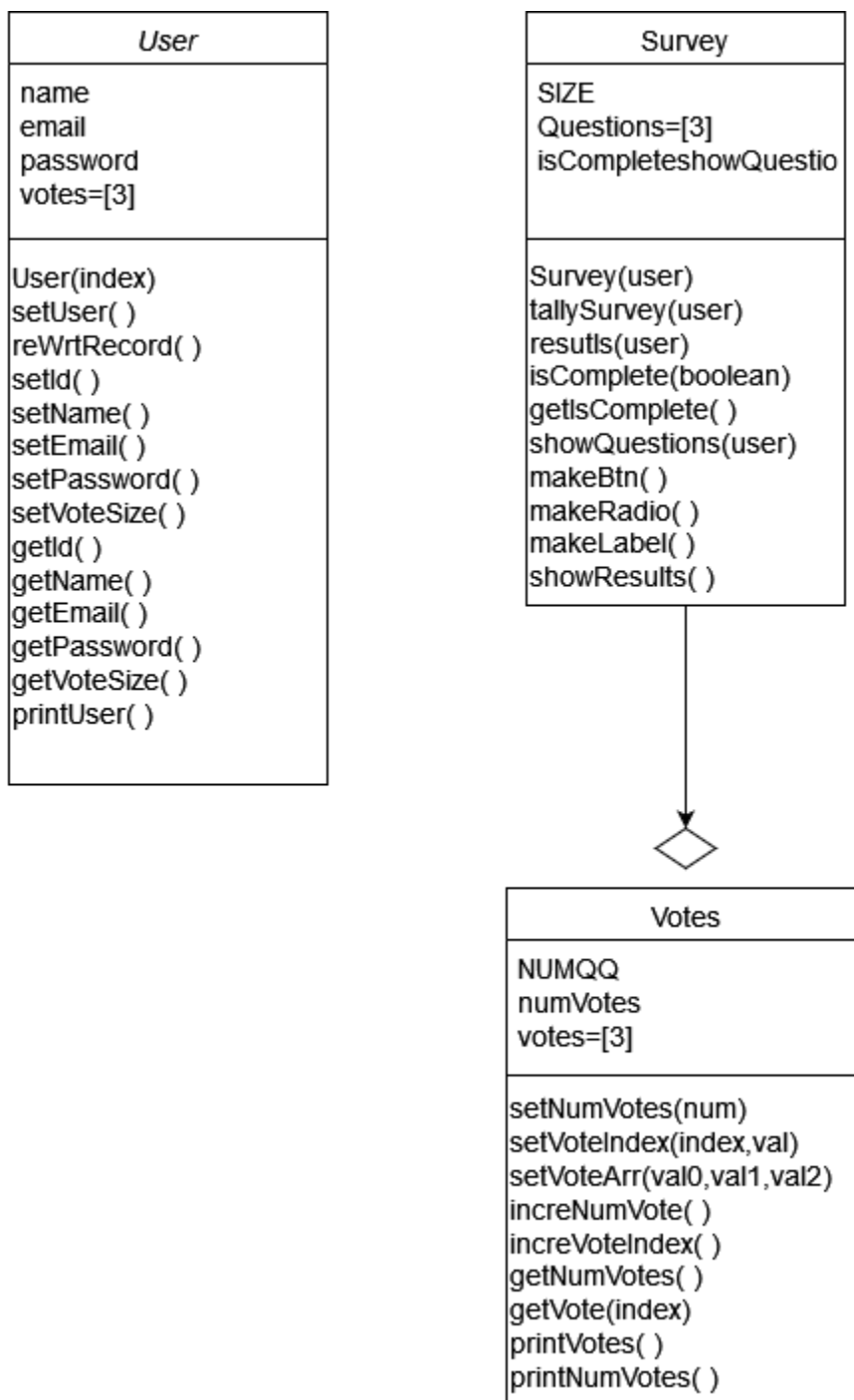
4. Survey results

Where to Find Concepts

MVC - How you delineated your objects	Votes.js Survey.js User.js Admin.js
Objects - JavaScript/PHP - Serialization	getLoginForm.html getSignUpForm.html
Reading/Writing Files/Local Storage	I wanted to implement local storage to display user's profile
Databases SQL	surveyDB_2.odp test_entity_user_votes.sql
Form Validation	login.js
User-Admin-Login	AdminMenuPage.html
Cookies - Sessions - Securing Pages	getLoginForm.html getSignUpForm.html cookies.js getForm.js

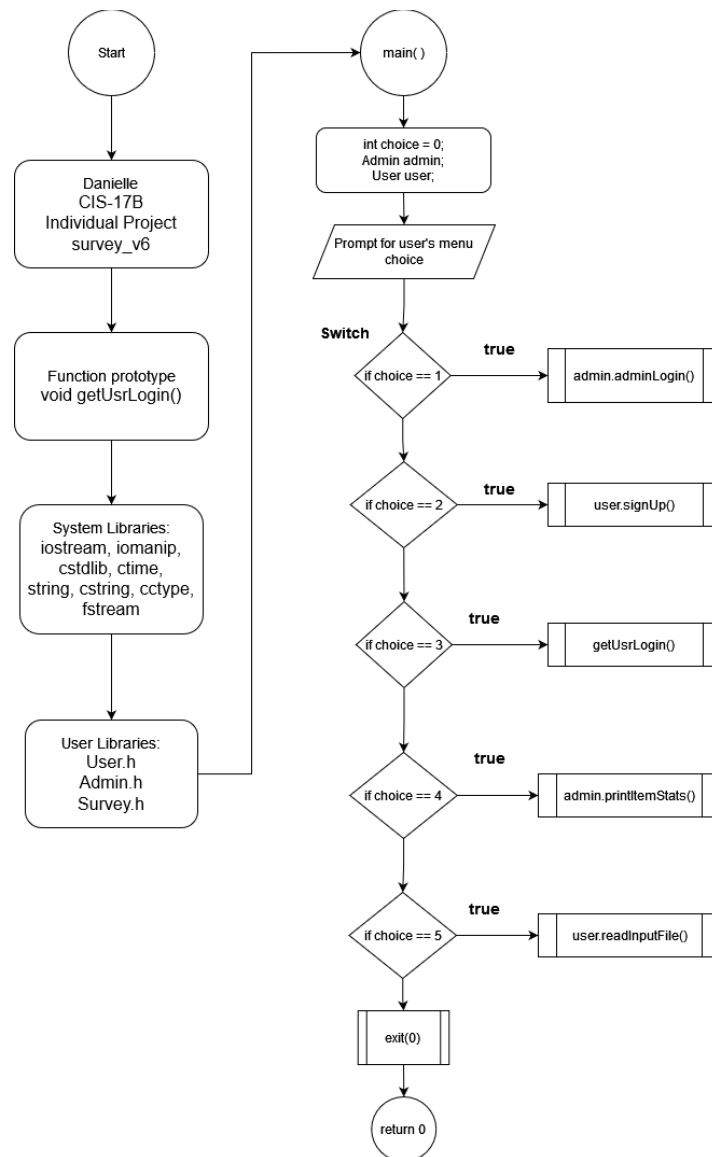
UML Chart

UML
Survey
Javascript
Object



Flow Chart Survey C++

The full version of this flowchart is in the store_cpp>docs>charts folder.



Pseudo Code

1. Convert Questions.cpp to JavaScript.
 - a. Reference my GitHub Trivia Game.
2. Convert Survey.cpp class to JavaScript.
3. Create Survey.html to display Questions object.
4. Convert Votes.cpp class to JavaScript.
5. Convert User.cpp class to JavaScript.
6. Create login.html
 - a. Login form redirects to Survey.html.
 - b. Sign up form creates new record and redirect to login.
7. Add cookies and PHP to handle sign up and login.
 - a. Reference Dr. Lehr's DBConnect, ShopLogin programs.

Reference

1. Lehr, Mark. "2023_Spring_CSC_CIS_17B · ml1150258/2023_spring_csc_cis_17b." GitHub, 2023, https://github.com/ml1150258/2023_Spring_CIS_CSC_17B.
2. Nixon, Robin. *Learning PHP, MySQL & Javascript: With jQuery, CSS & HTML5*. 5th ed., O'Reilly Media Inc., 2018.