



MET CS473/673 Software Engineering
17 October 2013

USER STORIES: ITERATION #1

Register

As a survey creator, I should be able to register with MySurvey because I want to get access to the application.

USER STORIES: ITERATION #1

As a survey creator, I should be able to log in to the MySurvey website because I should be able to create, view and edit my surveys.

Log In

USER STORIES: ITERATION #1

Log Out

As a survey creator, I should be able to log out of the MySurvey website after I have logged in and finished using the application.

USER STORIES: ITERATION #1

Create Survey

As a survey-creator, I should be able to create different types of survey questions so that I can customize the survey to my particular business needs.

USER STORIES: ITERATION #1

As a survey creator, I should be able to delete any survey that I created so that I can keep the surveys I have on the site both current and relevant.

**Delete
Survey**

USER STORIES: ITERATION #1

**View List
of Surveys**

As a survey creator, I should be able to see all my surveys because I want to know what surveys I've created.

REQUIREMENT ANALYSIS

MINIMUM SET OF REQUIREMENTS

User Registration

- User Login
- Create Survey
- View Created Surveys
- Take Survey

NON-FUNCTIONAL REQUIREMENTS

Availability

- Response Time
- Privacy
- Data Backup
- Data Archival
- Security
- Browser Compatibility

LOGIN & REGISTRATION

Follows MVC architecture

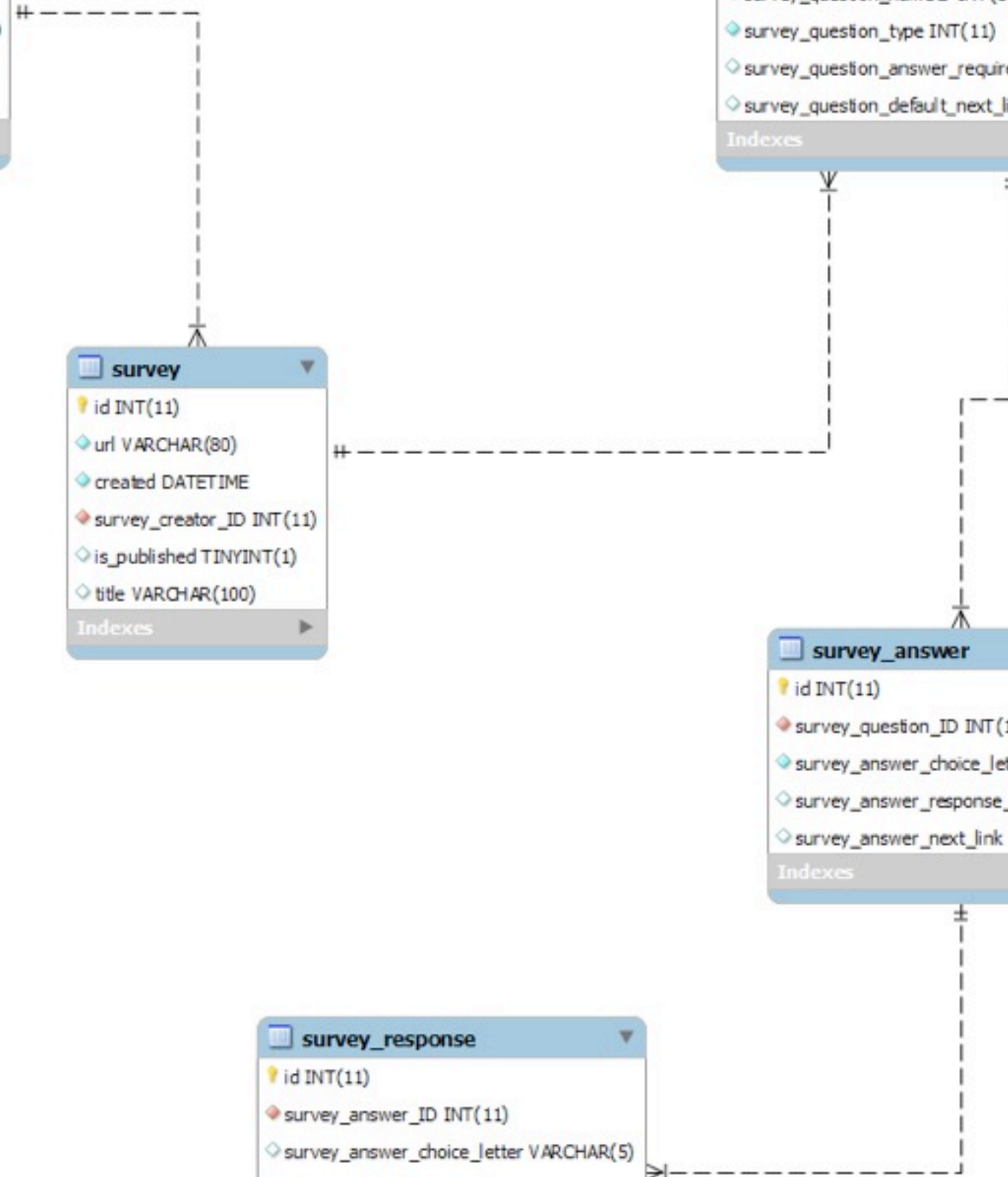
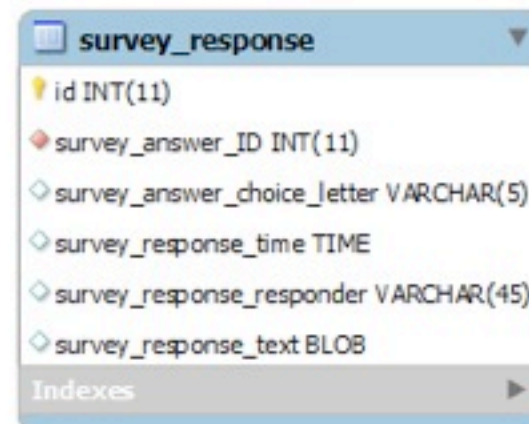
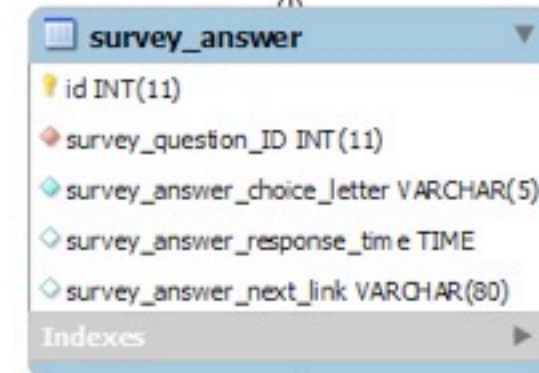
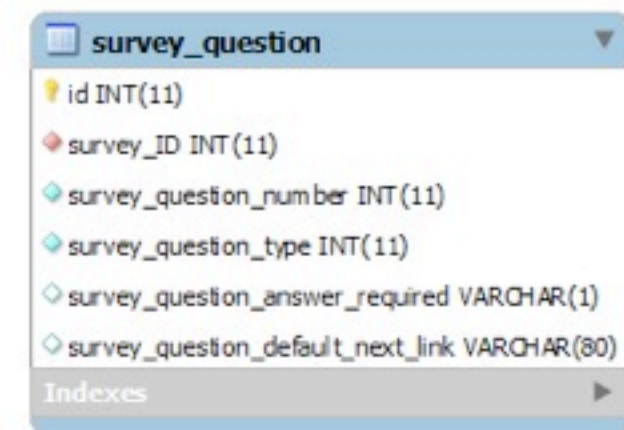
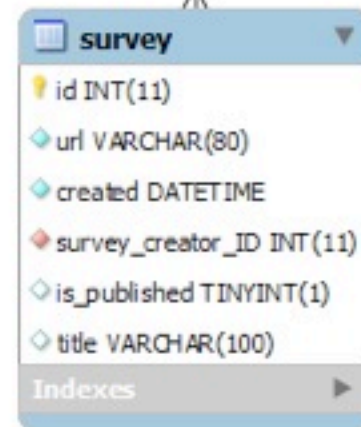
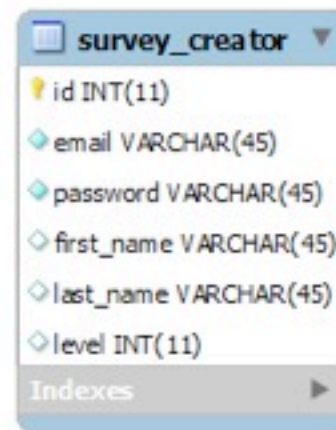
- Controller and View are straightforward
 - Controller checks if the request is a ajax call or not, and calls the corresponding function
 - View shows the page to be rendered
- Model enforces rules that needs to be validated
- Password security
 - Hash the password before storing in the database
 - Uses storage and time efficient SH1 hashing algorithm

LOGIN & REGISTRATION RULES

- Login
 - Email column needs to match the correct format
- Register
 - Email column needs to match the correct format
 - Email must be unique within the database
 - Password minimum length must exceed 8 characters
 - Password retyped password must match
 - Email, password, retyped password is required, first name and last name can be empty

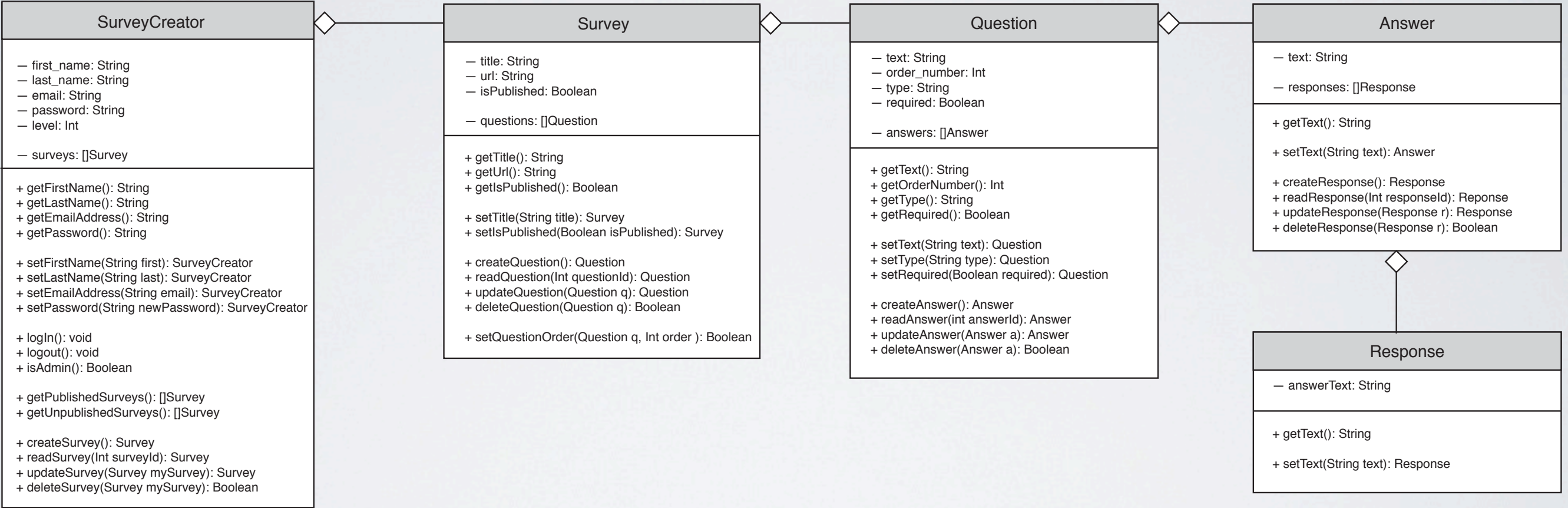
SOFTWARE DESIGN

DATABASE DESIGN



SOFTWARE DESIGN

CLASS DIAGRAM



MYSURVEY APPLICATION

IMPLEMENTATION

Tools used:

- **MAMP/XAMPP/AMPPS** to set up apache/php/mysql stacks
- **GitHub & Sourcetree** for version control & bug tracking
- **Pivitol Tracker** for tracking progress on user stories
- **Google+ hangouts!**

MYSURVEY APPLICATION

PROJECT DEMO

MYSURVEY APPLICATION

TESTING

- Iteration 1: Focused on unit testing
 - Development team was primarily involved
- Iteration 2: Start integration testing
 - Whole team will work on it

MYSURVEY APPLICATION

TESTING

- Unit testing tool
 - PHPUnit 3.7 + Yii framework support
- Unit testing scope: Iteration 1
 - Create, Update & Delete operations for the following tables:
 - Survey Creator** = Passed
 - Survey** = In progress
 - Survey Response** = Passed
 - Survey Question** = Passed

PROJECT MANAGEMENT
METRICS

6

User Stories
Completed

5

Bugs
Resolved

4

Open
Issues

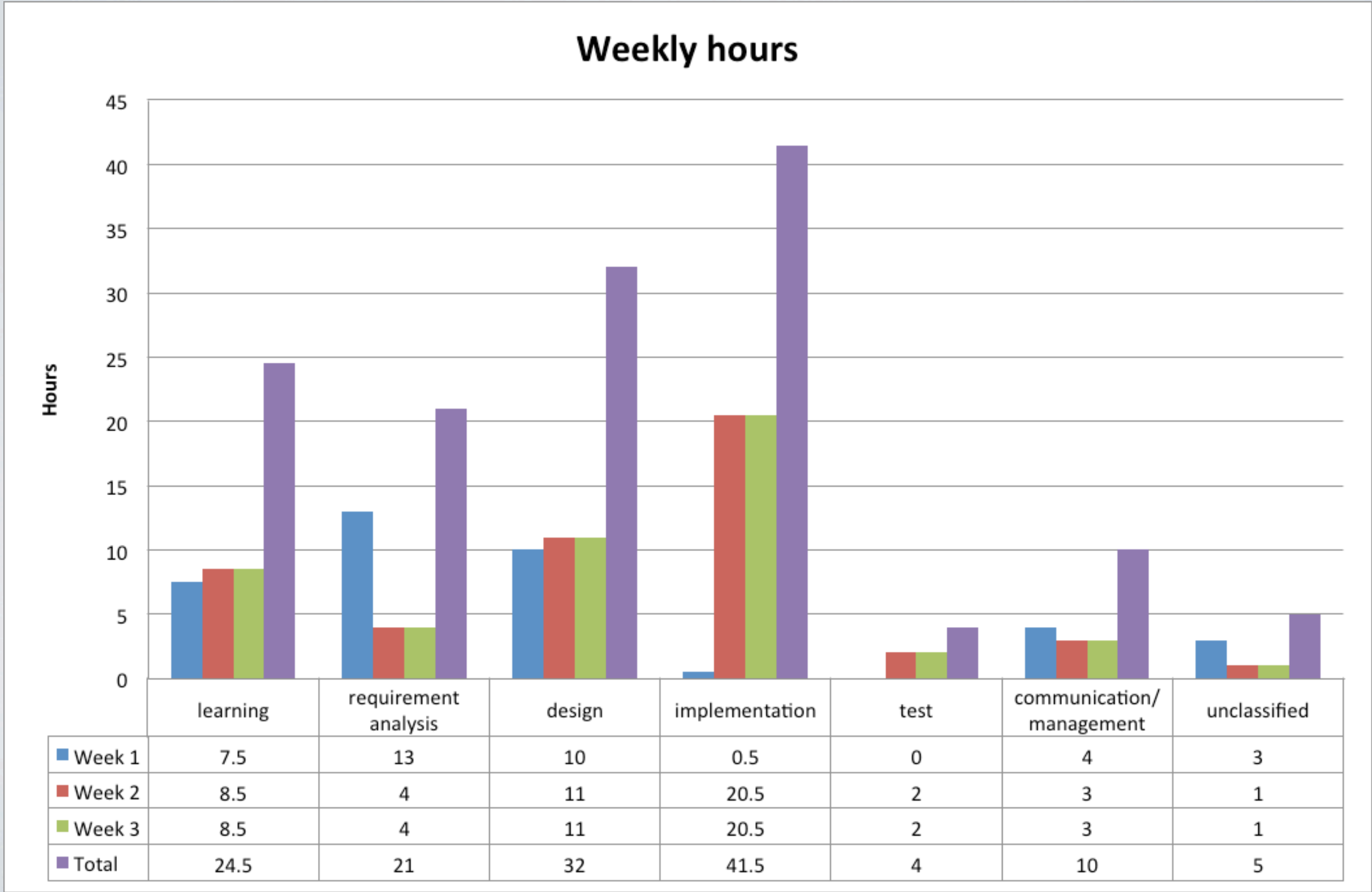
PROJECT MANAGEMENT
METRICS

6644

Lines of Code

PROJECT MANAGEMENT

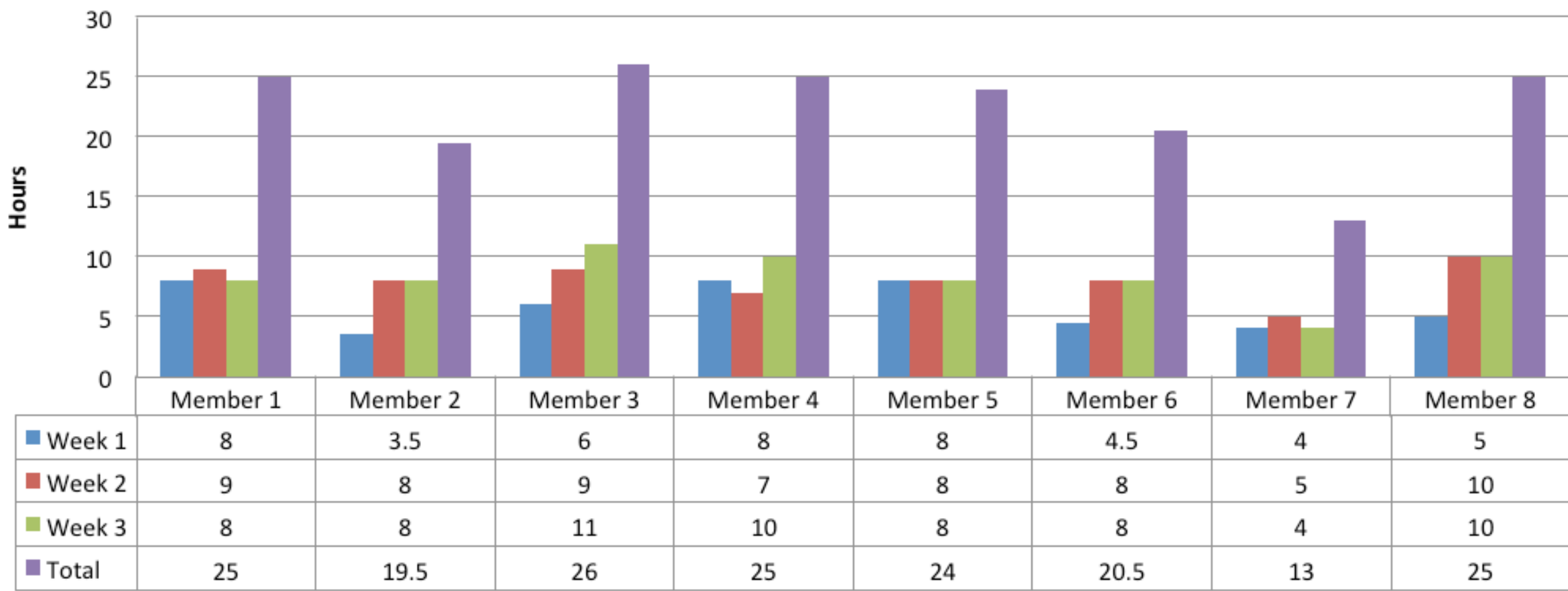
METRICS



PROJECT MANAGEMENT

METRICS

Total time for each member



CURRENT PROGRESS

- Database Design, Wireframes & Class Diagram
 - Started before the end of the first iteration; ongoing
- Create register, log in & log out functions
 - Programming & unit testing completed
- Create Survey: survey title, question & answer
 - Programming completed; unit testing ongoing
- Unit Testing Plan
 - Finished for the features in this iteration

LESSONS LEARNED

- Plan for support
 - Plan ahead for maintenance & issues along the way.
- Version consistency
 - Every team member should have the same version of the development tools.
- Testing
 - Start unit testing right away. Do not plan to go back & write the tests.
- Estimation
 - Every team member should participate in the estimation process.

FUTURE WORK: ITERATION 2

- Database Design, Wireframes & Class Diagram
 - Ongoing, will change as requirements change
- Requirements Review
 - Ongoing; may be refined as needed
- Provide more question types

FUTURE WORK: ITERATION 2

- Refine survey creation piece
 - Mark question as required
 - Set timer features on survey and on questions
 - Improve flow of survey and questions
- Create reports & question sequencing
- Testing & peer code review