



**Association for  
Computing Machinery**

## Project Name

Veterans Affairs Memory Test Project

## Project Manager

Bernandina Ortiz

## Project Definition

Develop a memory test program that will test the patients memory to determine if their memory has been impaired. The program will test the patient's memory by displaying a colored shape for two seconds, then showing a blank screen for five, ten, or fifteen seconds, then showing four shapes in which the patient must select the one he/she saw in the beginning.

## Project Scope

- IT Medical Services.

## Project Goals

Provide a user-friendly test program that uses a portable programming language (Java) for virtually any operating system.

## Project Dependencies

- Implement transitions from one trial to another.
- Implement transitions from one stage to another.
- Implement the creation and deletion of the shapes.
- Implement file writing to gather all data from each stage, including the emergency stage
- Implement both normal and emergency tests.
- Implement sounds.
- Implement objects that calculate and stores the test results and the patient's information.
- Implement a timer to transition the trials and stages as well as keep track of how it takes for the patient to answer each trial.
- Implement means of getting the patient's personal information (name and age) with a dummy-proof system in place.

## Project Team (2009-2010)

- Bernandina Ortiz (Documentation and Management)
- Richard Wang (Documentation, Code Review, Development, Quality Assurance)
- Yohei Takayama (Quality Assurance)
- Punravee Chergchaosil (Development)
- Alex Chavez (Development)
- Hyun-ki Chung (Documentation)
- Sangari R (Development, Quality Assurance)

## Project Team (2010-Present)

- Bernandina Ortiz (Documentation and Management)
- Richard Wang (Development, Code Review, Quality Assurance)
- Yohei Takayama (Quality Assurance)
- Punravee Chergchaosil (Quality Assurance)
- Alex Chavez (Quality Assurance)

## Project Stakeholders

- Association for Computing Machinery-CSULB Chapter
- Veterans Affairs Hospital

## Project Timeline

Transitions from one trial to another	Complete
Transitions from one stage to another	Complete
Creation and deletion of the shapes	Complete
Gather test data and store them into a file	In progress (one week)
Normal and emergency tests	Complete
Sounds	Not complete (one week)
Objects for storage and calculations	Complete
Timer	Complete
Gathering patient's information	Complete

## Project Phases

Software Design -----> Software Development -----> Software Test ----->  
Software Maintenance -----> Software Deployment

## Project Challenges

Ensure that all members know their tasks and coordinate with each other during the development and maintenance phases. Managing time between the VA project, school work, and life.