**1.)CS673F14 Software Engineering**

**Group Project 5 Meeting Minutes**

**Week 10 (11/28 - 12/3 )**

**Date and Time:** Wednesday, 12/3/14 - 4:00 - 5:00 pm

**Place**: GMU Study Lounge

**Participants:** Casey O’Rourke, Ashley Custer, Chethan Kolige Chandrappa Gowda, Nisreen Dahod, Kritika Balasubramanian

**Minutes taker:** Casey O’Rourke

**Timekeeper:**

* Discussed final preparations for final presentation.
* Divided up responsibilities in terms who is responsible for which slides
* Discussed demo portion - will focus more on Android portion.
* Backend will create a new art object to show how image and audio are saved, as well as QR code being generated
* Android demo portion will focus on full user experience, from finding museum to scanning a QR code and viewing the new art object
* Discussed details for next week in terms of final deliverables
  + Get code to main Git repo and instructions for Professor to use
  + Update documentation
  + Evaluation forms

Slides Responsibilities:

1-3: Nisreen

4-7: Sukaynah

8-13: Kritika

14-19: Ashley

20-24: Chethan

25-28: Nisreen

29-31: Chethan

32-35: Sukaynah

36-41: Casey

Total slides:

Casey - 6

Sukaynah - 8

Kritika - 6

Nisreen - 7

Chethan - 8

Ashley - 6

**Week 10 (11/27 - 12/1 )**

**Date and Time:** Monday, 12/1/14 - 4:00 - 5:00 pm

**Place**: GMU Study Lounge

**Participants:** Ashley Custer, Chethan Kolige Chandrappa Gowda, Nisreen Dahod, Kritika Balasubramanian, Sukaynah AlMutawa

**Minutes taker:** Kritika Balasubramanian

**Timekeeper:**

**Agenda**

Final wrap up activities:

What to include in the presentation?

* Check on refactoring of code to be added
* User stories completed/not completed (Sorting on pivotal tracker), Numbers etc - Add moreq
* Quality Management/Quality Metrics
* achievements and challenges
* Complete slides for final presentation
* Complete testing for android

Once the slides are complete, we will split for presentation.

**Week 9 (11/15 - 11/20 )**

**Date and Time:** Wednesday, 11/19/14 - 4:00 - 5:00 pm

**Place**: GMU Study Lounge

**Participants:** Casey O’Rourke, Ashley Custer, Chethan Kolige Chandrappa Gowda, Nisreen Dahod, Kritika Balasubramanian

**Minutes taker:** Ashley Custer

**Timekeeper:**

**Agenda**

will finish final implementation and freeze features before Thanksgiving break

this thursday we will try out android hookup to laptop

we need documentation and testing

backend is done with implementation

frontend needs to get qr scanner working, may try to get audio working

log issues on github, pivotal tracker

what do we need for the final presentation?

* django demo
* android demo
* testing
* management: slack, github, pivotal tracker

what do we need for the final documentation?

* technical documentation on github
* SPPP again
* small final report with final thoughts - post iteration review of sorts

**Week 8 (11/7 - 11/14 )**

**Date and Time:** Wednesday, 11/12/14 - 4:00 - 5:00 pm

**Place**: GMU Study Lounge

**Participants:** Casey O’Rourke, Ashley Custer, Chethan Kolige Chandrappa Gowda, Nisreen Dahod, Kritika Balasubramanian

**Minutes taker:** Nisreen Dahod

**Timekeeper:**

**Agenda**

* Lock in features
* Web App and API
* Final features
  + QR code display
  + Sign up with SMTP server (AWS SES)
  + Audio hosting
  + Any others?
* Refactor code
  + Finalize models
  + Start project from scratch
  + Integrate QR code and sign up
* Android
* ?

Source Control

* Need to try and get everyone on the same page and committing to the main Git repository for final product
* trying to finish main implementation by Thanksgiving and then focus on tweaks and final details after Thanksgiving
* What is left: need to be able to grab images, choose a museum, and QR codes
* Being able to play Audio for each art object: possibly make it a reach goal?
* Need to get art object collection up in the database
  + Art images and museum images
* Organized Pivotal Tracker: backlog, current, and reject features we won’t be implementing.
* Get live demo in place for our final presentation (December 4) a week before
  + 40 mins for live demo
* Documentation up now on GitHub.
* Meet again in a week (Wednesday).
* Assignment due tomorrow

**Week 7 (10/31 - 11/6 )**

**Date and Time:** Wednesday, 11/5/14 - 4:00 - 5:00 pm

**Place**: GMU Study Lounge

**Participants:** Casey O’Rourke, Ashley Custer, Chethan Kolige Chandrappa Gowda, Nisreen Dahod, Kritika Balasubramanian

**Minutes taker:** Ashley Custer

**Timekeeper:**

**Agenda**

1. **Iteration 2 presentation** 
   1. **Goals**
   2. **Web Applicaiton Demo**
   3. **Android application demo**
2. **Iteration 2 documentation** 
   1. **SPPP**
   2. **SDD**
3. **Other deliverables for the week** 
   1. **Weekly report**
   2. **Meeting minutes**
   3. **Bug tracking on github and pivotal tracker**
   4. **For *next week:*  midterm/final review questions**

getting images from API to Android application:

how do we do this

pull url of image to display image - Kritika found a tutorial, just need to figure out how to make it work

for tomorrow… just need to make sure it displays title and artist at least.

in demo, we will create an art object live, and then show the art object in the android app interface

**presentation:**

speakers tomorrow: assume sukaynah won’t be there

ashley will open: our goals for iteration 2, lead into some of the Django features

Casey will wrap up the remainder of the Django features

Chethan/Kritika/Nisreen will cover the rest

Testing: show test code and selenium

Create art object, create new exhibition with artwork in it

Transition to android team, they will open up a collection

Ideally, connect android phone directly to the computer so the class can see the android features.

Wrap up with iteration 3 goals

final slide: questions

Features demonstrated in android demo:

1. collections (including social media sharing)
2. homepage
3. maps

Will start on Casey’s laptop and then switch to Chethan’s

**SPPP -** add to iteration 2 goals, update iteration 3 goals

**SDD -** update any new features, use github to modify anything

**Pivotal tracker -** organize if we have time

images stored in amazon s3, can be retrieved via url

we will need to add SPPP and powerpoint presentations to github

**Week 6 (10/23 - 10/30 )**

**Date and Time:** Monday, 10/27/14 - 4:00 - 5:00 pm

**Place**: GMU Study Lounge

**Participants:** Casey O’Rourke, Ashley Custer, Chethan Kolige Chandrappa Gowda, Nisreen Dahod, Kritika Balasubramanian, Sukaynah AlMutawa

**Minutes taker:** Ashley Custer

**Timekeeper:**

Want QR in next iteration

* QR scanner in android app
* generate QR when musuem creates object in Django admin

Need images for art pages, Casey will put them in base64 - priority over the QR code

Audio files are prioritized beneath qr code

splash page

get museum by state and city

feature with map

images on art object pages

goal: get these things working by the next meeting and have this done for iteration 2

Casey and Ashley figuring out how to test the django admin on the heroku webserver

need a constant theme for the android application

**Week 4 (10/10 - 10/16 )**

**Date and Time:** Monday, 10/14/14 - 4:15 pm - 5:15 pm

**Place**: GMU Study Lounge

**Participants:** Casey O’Rourke, Ashley Custer, Chethan Kolige Chandrappa Gowda, Nisreen Dahod, Kritika Balasubramanian, Sukaynah AlMutawa

**Minutes taker:** Ashley Custer

**Timekeeper:**

**Purpose: Finishing up iteration 1 and preparing from presentation**

**Agenda:**

* **Documentation**
  + **Structure of documentation**
* **SPP2**
  + **Needs to change some items - which ones?**
* **Testing**
  + **Need to have a plan, not necessarily the tests**
* **Github**
  + **Get everything updated by Wednesday**
* **Presentation**
  + **Speakers**
  + **Topics**
* **Other to dos**

Focus should be on the technical aspects of work, not obvious decision. Documentation is on the google docs for now. We need to get documentation up on github. Need to have progress done on it by Thursday. Need

1. documentation
2. bug tracking
3. docs on github

SPP2: what has changed? what is significant to show? go back to the section you worked on and update it.

work seems to be on schedule.

testing. based on the user stories. for example, based on a certain input, what should the output be? check for testing tools for android and django. we need a testing plan and the tools we will use. start writing unit tests that we can continue to use as we develop and more complexity is introduced. TestNG is a possibility for Java/Android testing.

GitHub: have branches updated by Thursday. Django branch is currently private to store keys. will copy to public repo to make non sensitive code available.

Presentation: 10 minutes again. iteration 3 is the final talk. each group member needs to talk in at least one presentation in iterations 0, 1, 2. Everyone talks in the final presentation (iteration 3). Sukaynah and Kritika will be speaking in the iteration 1 talk this Thursday. Kritika will discuss the front end Android development. Sukaynah will talk about the back end Django database schema. Will show the web API working, and the Android application. Sukaynah has created an awesome graphic of our database schema.

More presentation. Casey will give an overview of where we are in progress and what will be covered in the presentation. A simulation of the Android app will be projected for the class using Eclipse. We have 3 speakers right now. Do we need a 4th? Goal of app iteration 1: select a museum based on state and city. then select a museum and see a base page. Nisreen will speak in the beginning. Then Sukaynah will talk about database set up. Then Casey will speak about the web API. Kritika will discuss the Android front end.

For technical documentation. Explain design decisions - what we did and why.

Casey creating SPPP2 in our shared project folder where we can update the document. For now, new edits will be in red so we know what has been added to the documentation.

Bug tracking on github. not sure if we will get to that this week. Go to issues, click new issue, and write what needs to be fixed. Fill out appropriate fields as you see fit.

SPPP2, design documentation, weekly report, presentation slides, bug reports, update tasks on pivotal tracker.

**Date and Time:** Monday, 10/06/14 - 4:15 pm

**Place**: GMU Study Lounge

**Participants:** Casey O’Rourke, Ashley Custer, Chethan Kolige Chandrappa Gowda, Nisreen Dahod, Kritika Balasubramanian, Sukaynah AlMutawa

**Minutes taker:** Sukaynah

**Timekeeper:** Sukaynah (4:15pm - 5:15pm)

**Purpose: Working on getting the iteration 1 “almost” done!**

**Agenda:**

1. Getting the Android App to work (front end)
2. Modeling the database by drawing the ER-diagram and implement it (back end)
3. Establish the communication between frontend and backend using Json format
4. Constructing the UI for both frontend and backend

**Status:**

* *Frontend:* Working on the android app
  + Simulating an android device to run the app
  + Creating a UI
  + Apply a simple query using Json format
* *Backend:* Working on the database
  + Admission to users
  + Viewing and editing limits (level of permissions)
  + Linking users to museums

**Discussion:**

* For frontend group:
  + In connecting with database, chethank is thinking that once the location is selected, then the museum can be displayed; otherwise, the user may have to search among the whole list! For example, if a state was selected, a list of museums on that state shall be displayed.
  + Nisreen suggested using a colour scheme
  + Kritika suggested adding pictures of museums to the splash page
  + Adding paintings from museums as images to the splash page background seems good idea
  + For now, searching among the museums shall be according to the state they are located in. The states shall be stored in abbreviation form (e.g. MA, NY, ON)
  + A list of states shall be displayed, so the user can select a state. After that, another list of the museum in that state shall be displayed
  + Chethank arises an issue about querying the museum of a certain state: if we search among all entries in the museum table to get the ones in that particular state, that will work; however, it will be too slow (searching among all museum in the country!)
* For backend group:
  + Chethank suggested getting the lat log, so the frontend group can work with Maps
  + For now, the location will be stored in a character field (as a string) with the format (city - state - zip - lat - long)
  + Related to admin and logs permissions, Casey is thinking about making several user accounts accessing one museum
  + Ashley suggested direct contact with the museums (for the initial stage). She thinks that by doing so, we can verify the legitimacy of the user and the museum. She is thinking about using the function (get\_queryset)
  + Casey agrees with Ashley. It might be done simply via a “login page” that asks for filling a form. The form can be sent to us, so we can modify the database manually.
  + Sukaynah thinks that an easy way to assigning the permission is by associating each museum with a user; that is, linking the user model of the default admin app by adding a foreign key in the museum class (in the model.py file)
  + Casey is thinking about creating a new repository that is connected to heroku app, so we can push all the code there (the one related to the keys and admins)
  + Sukaynah assumed that a user might be assigned to one museum or more, but Casey thinks it is better if we allow only one user for each museum.
  + Ashley and Casey are thinking about allowing “Null” fields in the tables for the mean time only, so they can perform migrations for the database to get something to work
  + Ashley

**Key Decisions**

* For frontend group:
  + A museum picture is chosen for the background of the splash page
  + Implementing query to get a list of states and museums according to the location (currently the state)
* For backend group:
  + Creating new url: edocent.herokuapp.com (to perform queries)
  + One-to-one relationship between Museums and Users

**Action Items:**

* For frontend group:
  + Kritika shall work on the Art Work page which displays arts and its information
  + Chethank sall work on connecting the app with the database and applying specific queries, so he get the desired information (calling the API)
  + Nisreen will be responsible for designing an interface that allows the user to choose a state, and then a museum from available list
* For backend group:
  + Casey shall be responsible of providing the frontend team with the latest updated database (giving the url for querying)
  + Ashley and Sukaynah will work on admin (limiting the privileges of each user to just only accessing the fields linked to their museum)
  + A link must be created between the Users table and the Museum table to identify which user is associated with wich museum
  + Ashley will work on limiting the users from accessing the other users’ data or being able to see a list of other users in the User table.

**Week 3 (09/19 - 09/25 )**

**Date and Time:** 9/22/14 4pm

**Place**: GMU Study Lounge

**Participants:** Casey O’Rourke, Ashley Custer, Chethan Kolige Chandrappa Gowda, Nisreen Dahod, Kritika Balasubramanian, Sukaynah AlMutawa

**Minutes taker:** Kritika

**Timekeeper:** Kritika (4:15pm - 5:15pm)

**Purpose: Finalize project requirements/description. Assign responsibilities for project and preparing for the end of week 3.**

**Agenda:**

* SPPP progress
* Presentation
  + Slides
  + Requirements
  + Speakers
* Team updates
  + Android team
  + Django team
    - Database discussion
* Project name?
* Project schedule
  + what project goals should be met in what iteration phase? e.g., we will have a working admin page where a museum can fill in fields and add pieces of art manually and an android app that can create a home page from database information by the end of iteration 1 (10/16)
* Requirements for the week
  + SPPP
  + Weekly report
  + Meeting minutes
  + Presentation
  + User stories

**Status:**

* Working on Project Proposal
* Working on assignment: Create User Story

**Discussion:**

* Discussion of each section of the Project Proposal document in detail and the progress made by group members based on the area of responsibility
* Project Presentation - contents to be included

Include 3 sections (overview, related work and detailed description)

* Actual Project Name
* Project Iteration phases

**Key Decisions:**

* Static Database structure
* Project Name **E-Docent**
* Iteration 1: The Museum would be able to add information about the Museum. Front end (Android) displays information about the Museum entered
* Iteration 2: Museum should be able to upload art works and perform search from the front end
* Iteration 3: People should be able to use QR scanner to look up information about the art works
* Project Presentation: Overview by Casey. Leaders will speak in detail about their respective modules (Casey, Chethan)

**Action Items:**

* Share sample PP documents (Kritika)
* Complete Assignment (Create 3 User Story for our project, 1 User Story as customer) by thursday 6:00pm
* Project Proposal deadline at 3:00pm, Thursday
* Each person includes slides for their respective areas for presentation
* Complete Weekly Report by thursday 3:00pm
* Casey - Contact Luis to input customer user story

**Date and Time:** 9/17/14 4pm

**Place**: GMU Study Lounge

**Participants:** Casey O’Rourke, Ashley Custer, Chethan Kolige Chandrappa Gowda, Nisreen Dahod, Kritika Balasubramanian, Sukaynah AlMutawa

**Minutes taker: Ashley**

**Timekeeper:**

**Purpose: Finalize project requirements/description. Assign responsibilities for project and preparing for the end of week 3.**

**Agenda:**

1. **Finalize initial requirements**
   1. Look at MoMa app
      1. What we like: Casey found this app, it is a useful template to look at for our application
      2. What we don’t like: when you are on the museum page, you have to click on a bar to have the menu come up
   2. Web app:
      1. Decide what information will be available from QR scan/code input (e.g., audio; classification including author, time period, movement, location; visual; etc)
         1. Static fields or dynamic
         2. geo lat lon coordinates for location of museum
         3. floor plan of museum as image file maybe
      2. Interface design
         1. Chethan has designed a splash page with links to museum information
      3. Bulk upload
         1. doable, don’t know how hard it would be to do though
   3. Android
      1. Handle dynamic content or stick static fields: static for now, maybe dynamic later
      2. QR scanner
      3. Audio player
      4. Video player
2. Assign responsibilities for software planning sheet
   1. Determine who will do what for each part of SPPP sheet
      1. what kind of things do we need to worry about for risk management
      2. how will we break up work on our project proposal
      3. what metrics will we use
3. Finalize group role responsibilities
   1. Two implementation teams
      1. Leaders of those teams communicate on interface
   2. Testing
      1. Testers test their teams respective items (i.e. Django team member tests Django code)
4. GitHub
   1. forking vs branching - we’ve decided branching makes more sense for us
   2. we’ll have one branch for front end (Android) and one branch for back end (Django and Database)
   3. talk to group members before commits if working on same branch at the same time
5. Communication/Organizational
   1. Google docs folder refactor - setup the top level folder hierarchy
   2. Comments on meetings
      1. Meeting time
6. Review deliverables and assign responsibilities for the this and next week
   1. Time sheets
   2. Project name

**Status:**

* working on project proposal
* front end group members have created an initial start page for the android application
* back end group members have created a sample administrative page

**Discussions:**

* Name ideas: Virtual Museum Curator, Untitled
* Chethan created an example museum home page for the app that looks great! It has a picture of the museum, information text, and links
* Ashley showed the sample admin page for the back end. Only museums will have access to this page. And only the admin will have access to everything
* Should we change the meeting time? Our Wednesday meetings are too close to our Thursday meetings that take place at the end of class
* What should our project name be?
* communication tools: email for big things, slack group for smaller discussions
* presentation will be very brief, 5-7 minutes
* To the art admin page add a image upload field, audio upload field, video option, artist, material/medium, date created, dimensions
* for the museum: lat lon, floor plan, open hours

**Key Decisions**

* Chethan, Nisreen, Kritika will be working on on the Android, front end side of things
* Ashley, Casey, and Sukaynah will be working on the back end, Django side
* New meeting time will be Mondays at 4pm starting next Monday 9/22

**Action Items:**

* Ashley will set up reminder that will go out to all members in the group every Tuesday or Wednesday to fill out weekly - set up google calendar
* work on project proposal that is due next week, have an idea of what will be in your section by Monday 9/22 meeting
* everyone finish their weekly report by tomorrow night (Thursday 9/18)
* Nisreen will set up our group on pivotal tracker
* everyone create login for pivotal tracker

An Example from previous project:

**Date and Time:** 1/26/12 7 - 8PM

**Place**: Group Phone Call

**Participants:** Dan Spuches, Grace Hopkins, Craig Cato

**Minutes taker:** Dan Spuches

**Time Keeper:** Craig Cato

**Purpose:** Project Kickoff Meeting

**Agenda:**

* Determine group name
* Determine project name
* Provide effort hours so far
* Finalize communication plan
  + Google group vs. Trello
* Find and discuss related works
* Google code
  + Create project site
  + File a test bug
  + Check in/out a test document
* Brainstorm requirements
* Discuss risks
* Determine an approach/process to use
* Assign roles

**Discussion:**

* Determine group name
  + Is this the same as project name? Yes
* Determine project name
  + Yet another weight tracker - taken
  + Yet another weight program - YAWP
    - Don't want to make YAWP noise when you stand on the scale
  + BodyStats
  + Yet another weight history program
  + Yet another weigh-in program
  + Yet another weight oriented program
* Provide effort hours so far
  + Members will email hours spent so far to Grace
  + Need to decide start/end of week
    - Week starts Saturday, ends Sunday
* Finalize communication plan
  + Google group - email distribution
  + Google code - upload and track all documents (including agenda, minutes, etc)
  + Trello - Discussions/brainstorming/to-do and completed tasks
* Find and discuss related works
  + http://download.cnet.com/Weight-Tracker/3000-2129\_4-10458217.html
  + weightchart.com
    - Web based
  + weightwatchers.com
    - Web based
  + Our project is standalone, not web based, open source (differentiator)
* Google code
  + Create project site
  + File a test bug
  + Check in/out a test document
  + SVN or GIT?
    - We will use SVN
    - Tortoise SVN for windows
  + What license will we use?
    - Apache 2.0
    - What are the terms?
    - Need to tag all works with the license text from http://www.apache.org/licenses/LICENSE-2.0
* Brainstorm requirements
  + Functional
  + Non-functional
  + Desktop java standalone client
  + Not networked
  + Single user per instance
    - Future - multiple users
  + Need to be able to enter weights
  + Calculate BMI
  + Charting over time
    - Export charts?
    - Daily weight change
    - Monthly weight loss
    - Trending of data
    - Projections
  + Target weight
  + Sounds?
    - Applause for loss
    - YAWP for gain
  + Computerize printed charts
  + Print charts/data
  + Export and save functions
  + Options
    - Configurable units
      * English vs metric
      * LBS vs KG vs Stones?
* Discuss risks
  + New tools - not understanding/knowing how to use tools
  + Schedules - work and home life
  + Keep it simple/limit scope creep
  + Originality - what differentiates us from others?
  + Multiple user functionality - may be too time consuming
  + Limited time for project as a whole
* Project criteria
  + Usefulness - nobody has yet found the best way to do it, there are a lot of other ones out there, none are right yet?
  + Complexity - will be sufficiently complex
  + Originality - it is original because Craig created the concept
* Determine an approach/process to use
  + Waterfall with feedback/iteration
    - Ability to revisit requirements and re-shuffle priorities
    - Need to build in the ability to respond to risks as they arise and difficult requirements
  + Possibly some agile concepts/aspects - prototype and test driven
  + JUnit testing - test driven development
* Assign roles
  + Grace - Leader and QA
  + Craig - Configuration Mgmt
  + Dan - Implementation

**Key Decisions**

* Project name is YAWP - yet another weight-tracking program
* Google code
  + https://code.google.com/p/yawp/
  + We will use SVN on Google code
  + Source code license - Apache License 2.0
  + Labels - health, academic, java
* Time tracking
  + Week start on Sunday
  + Week end on Saturday
  + Get time to Grace by noon on Sunday
* Communication Plan
  + Use Google group for email communication
  + Use Trello for task tracking (to-do and complete) and discussions/brainstorming
  + Use Google Code for document and code repository, version control
* Roles assigned:
  + Grace - Leader and QA
  + Craig - Configuration Mgmt
  + Dan - Implementation

**Action Items:**

* Review terms of Apache license - Dan, Craig, Grace
* Submit time to Grace by noon Sunday - Dan, Craig, Grace