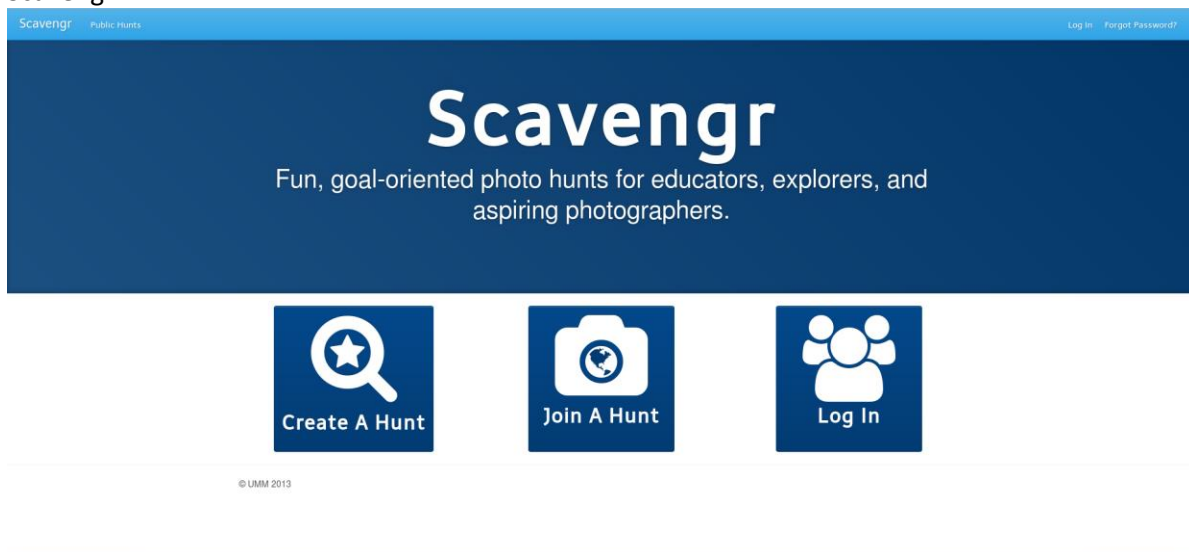


Kirbie Dramdahl
CSci3601: Software Design and Development
Scavengr Portfolio
7 May 2013

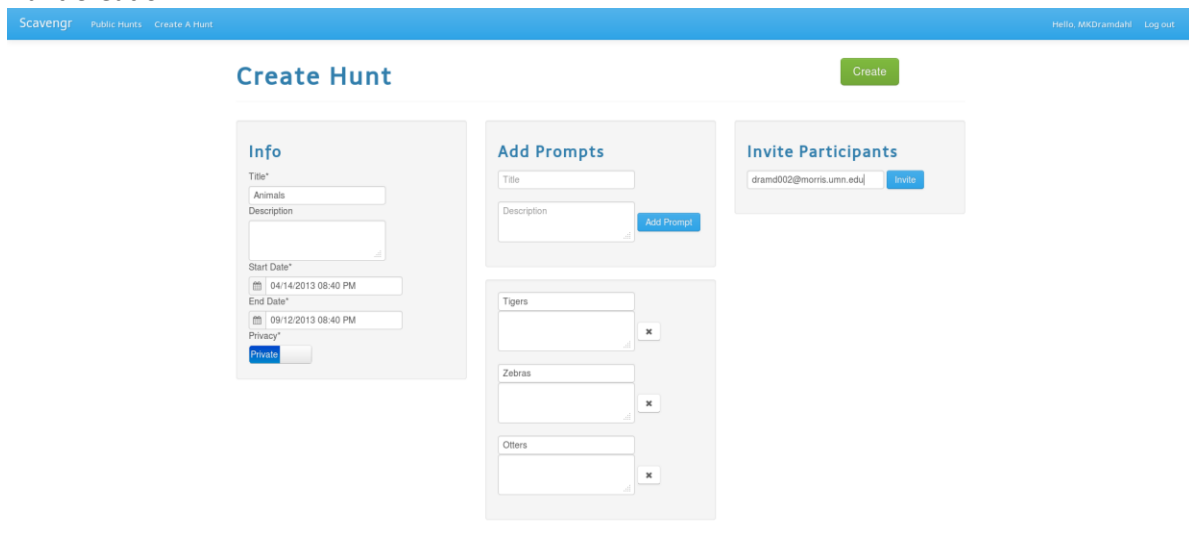
Project Description:

- photo-sharing website
- for leaders, educators, and anyone interested in photography who want a social, fun way to take and share photos, Scavengr is a goal-oriented photo-sharing interface that prompts users to engage in interactive photography; unlike Instagram, Flickr, and Pinterest, our product inspires improvement and development through community-driven objectives and prompts

Scavengr




Hunt Creation


The screenshot shows the 'Create Hunt' form in the Scavengr application. The top navigation bar is blue with 'Scavengr', 'Public Hunts', and 'Create A Hunt' on the left, and 'Hello, MKDramdahl' and 'Log out' on the right. A green 'Create' button is in the top right corner. The form is divided into three main sections: 'Info', 'Add Prompts', and 'Invite Participants'. The 'Info' section includes fields for 'Title*', 'Description', 'Start Date*' (with a calendar icon and a date/time picker set to '04/14/2013 08:40 PM'), 'End Date*' (with a date/time picker set to '09/12/2013 08:40 PM'), and a 'Privacy*' dropdown menu currently set to 'Private'. The 'Add Prompts' section has a 'Title' field, a 'Description' field, and an 'Add Prompt' button. Below this are three categories: 'Tigers', 'Zebras', and 'Others', each with a text input field and a delete icon. The 'Invite Participants' section shows an email address 'dramd002@morris.umn.edu' and an 'Invite' button.

Hunt Display for Creator/Participant

[Scavengr](#) [Public Hunts](#) [Create A Hunt](#) Hello, MKDramdahl [Log out](#)

Animals

Tigers ✓

Zebras ✓

Otters

HUNT INFO

Start Date
April 14, 2013 8:40 PM

End Date
September 12, 2013 8:40 PM

Privacy
Private

Key
K21ewodno

Hunt Creator
MKDramdahl

Hunt Participants
MKDramdahl

ADMIN OPTIONS

Add new Prompts

Title

Description

[+Add Prompt](#)

Add new Participants

Participant Email Address

[+Invite](#)

Add new Administrators

Username

[+Add](#)

Lock In




Guest Name

[@Lock In](#)

User Profile

[Scavengr](#) [Public Hunts](#) [Create A Hunt](#) Hello, MKDramdahl [Log out](#)

MKDramdahl



ACTIONS

- [+ Create Hunt](#)
- [🔍 Search Public Hunts](#)
- [🔑 Change Password](#)
- [✉ Change Email](#)
- [📷 Download My Photos](#)

MY CREATED HUNTS

- [🔍 Animals](#)

MY HUNT PARTICIPATION

- [🔍 Animals](#)

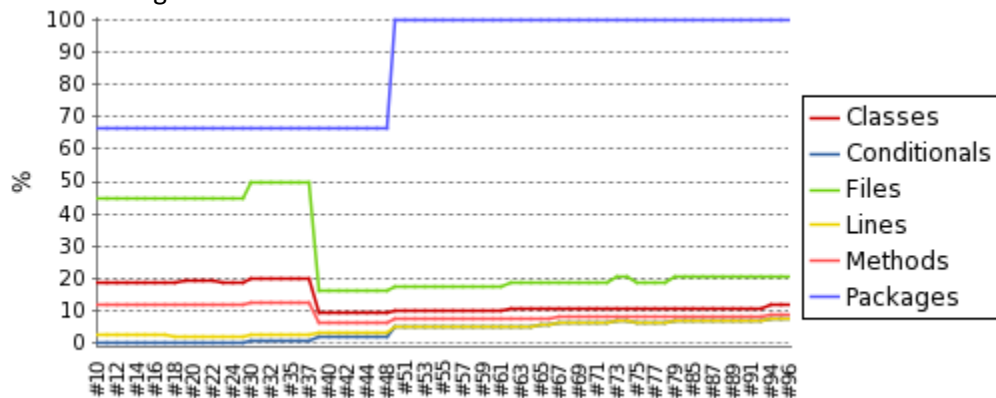
[🗑 Delete](#)

© UMM 2013

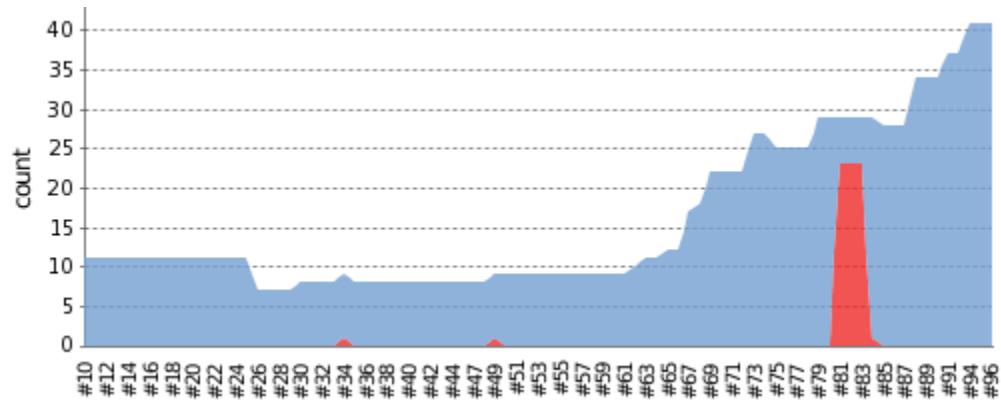
Project Statistics:

- 400 classes
- 2330 conditionals
- 12 files
- 4103 lines
- 604 methods
- 3 packages
- nine week production time
- four iterations
 - first iteration
 - three weeks
 - group of four
 - second iteration
 - two weeks
 - group of five
 - third iteration
 - two weeks
 - group of six
 - fourth iteration
 - two weeks
 - group of ten

Code Coverage Over Fourth Iteration



Test Results Over Fourth Iteration



Sonar Information

Lines of code

2,890

4,077 lines

51 files

Classes

50

11 packages

172 methods

Comments

14.8%

502 lines

Duplications

0.0%

0 lines

0 blocks

0 files

Complexity

2.5 /method

8.7 /class

8.7 /file

Total: 437

Complexity Level	Count (Methods)
1	130
2	20
3	10
4	5
5	5
6	5
7	5
8	5
9	5
10	5
11	5
12	5

Violations

164

Rules compliance

91.6%

Blocker

0

Critical

0

Major

41

Minor

121

Info

2

Unit tests coverage

-

Unit test success

0 tests

Technical Debt

4.3%

\$ 2,013

4 man days

Violations

Complexity

No information available on coverage

No information available on design

PumaEnergySquad

Violations

164 📈

Rules compliance

91.6% 📈



Blocker

0



Critical

0



Major

41 📈



Minor

121 📈



Info

2



PumaEnergySquad

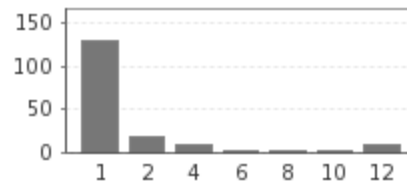
Complexity

2.5 /method

8.7 /class

8.7 /file

Total: 437 📈



☒ Methods ☐ Files

PumaEnergySquad

Technical Debt ⓘ

4.3%

\$ 2,013 📈

4 man days 📈

Violations



Complexity

No information available on coverage

No information available on design

PumaEnergySquad

Most violated rules

Major



[More](#)

🔺 <u>Unused Variable</u>	12	<div></div>
🔺 <u>Abc Complexity</u>	9	<div></div>
🔺 <u>Grails Domain Has Equals</u>	5	<div></div>
🔺 <u>Cyclomatic Complexity</u>	4	<div></div>
🔺 <u>Line Length</u>	2	<div></div>

Project Tools:

- Groovy and Grails
- Jenkins
- Sonar
- Tomcat
- Local Host
- Subversion
- Agile Techniques
- Visual Workspace
- Cobertura (not much, but some)

My Contribution:

- Initiation of Domain Classes
 - contributed to the initial setup of domain and controller classes
- Aesthetics and Displays
 - contributed to the layout of the site (design, links, popups, navigation bar, ...)
- URL Mapping
 - added hunt key to URL of hunt display page
 - added username to URL of user profile page
- Public Hunts List
 - hunts list only displays public hunts
- Text Search
 - when a key is entered in the hunt search text field, the user will be redirected to the hunt to which the key belongs or the public hunt list if no such hunt exists
 - implemented the initial version of the profile search text field (no authentication)
- Lock In
 - in the case where you would want to allow children to participate in a Scavenger hunt without creating an individual account for them or allowing them to wander aimlessly about the site, the lock in function allows you to create a sort of account within your account, which allows the child to only access pages within the specified hunt and to upload photos under their name rather than your own
 - created pop up containing information on the purpose of lock in and guest users
- Deletion
 - implemented the functionality necessary to allow photos, prompts, hunts, and users to be deleted without interfering with the deleted items relationships and without breaking the build
 - added delete confirmation messages to photos, prompts, hunts, and users to allow the user to backtrack
- Email Notification
 - in hunt creation, emails are sent out to all addresses listed in invited participants list
 - if a hunt creator adds an admin to their hunt, that admin is sent an email informing them that they have been selected as an admin and including a link to the specific hunt
- Hunt Invitation/Participation Lists on User Profile
 - when a user is invited to a hunt, the hunt appears in the hunt invitations list on the user profile
 - when a user uploads their first photo to a hunt they have been invited to, the hunt is moved from the hunt invitations list to the hunt participation list on the user profile
 - public and private hunts are differentiated; public hunts display regardless of login

status, private hunts only display if logged in to the profile being viewed

- Hunt Invitees/Participants Lists on Hunt Display
 - when an individual is invited to a hunt, either the username or the email of the invited individual (depending on whether or not the individual has an account with Scavenger yet) appears in the hunt invitees list on the hunt display
 - when an individual (now a user) uploads their first photo to a hunt they have been invited to, their username is moved from the hunt invitees list to the hunt participants list on the hunt display
- Information Messages
 - changed information messages (create, update, delete, not delete) to be meaningful/not ugly
- Error Messages
 - changed error messages in hunt creation (and elsewhere) to be meaningful/not ugly/not break Grails
- Account Creation Error Messages
 - changed error messages in account creation to be meaningful/not ugly/not reveal your password to the entire world
- Closed Prompt Messages
 - changed messages for closed prompts to indicate whether they are closed because the hunt has not yet been opened or because the hunt has been closed
- Testing
 - implemented tests for the all domain classes
- Geb Testing
 - implemented tests for home page, lock in, and user profile
- Sonar Refactoring
 - cleaned up code compliance and removed duplication