

# Project: Archaeological Fieldwork

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# Application Concept

Develop an application supporting an exploration of  
Archaeological Sites of Interest

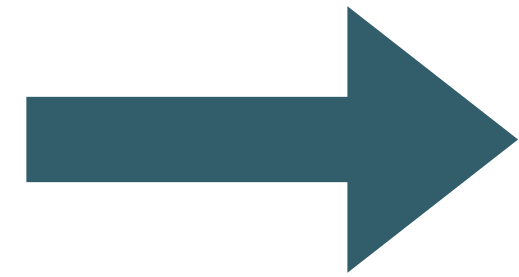
Users are archaeology students.

App should contain a list of sites they have been  
assigned to visit.

Users visit site, take photos + notes which augment the  
information on the site provided by the app.

Students can add additional sites - which may be  
uncharted

2 Versions



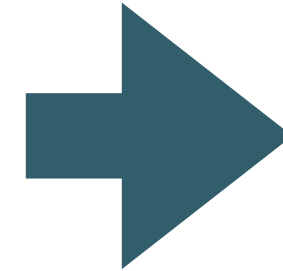
Version 1: Foundation

Version 2: Enhanced



Version 1: Foundation

# App Components



1 Opening Screen / Splash Screen:

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2 Signup / Login

---

3 Toolbar

---

4 List of Sites

---

5 Create/Edit Site

---

6 Settings

Suitable Image or Logo  
Appears for limited period

# App Components

1 Opening Screen / Splash Screen:

---

2 Signup / Login

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3 Toolbar

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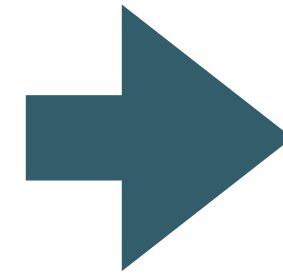
4 List of Site

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5 Create/Edit Site

---

6 Settings



Standard signup / login screen  
2 Fields: Email Address + Password

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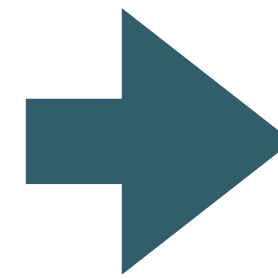
4 List of Sites

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5 Create/Edit Site

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6 Settings



Context Sensitive Menu  
options:

- Up
- Logout
- Add
- Cancel
- Delete
- Settings

# App Components

1 Opening Screen / Splash Screen:

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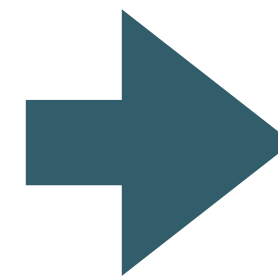
4 List of Sites

---

5 Create/Edit Site

---

6 Settings



All Site, each Site:

- Name
- Single image
- Location (lat/Ing)
- Visited (checked/unchecked)



# App Components

1 Opening Screen / Splash Screen:

---

2 Signup / Login

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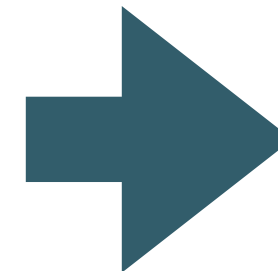
4 List of Sites

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5 Create/Edit Site

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6 Settings



## Individual Site:

- Name
- Description
- Up to 4 Images
- Edit Location (select from map)
- Visited (checked/unchecked)
- Date Visited
- Additional Notes

# App Components

1 Opening Screen / Splash Screen:

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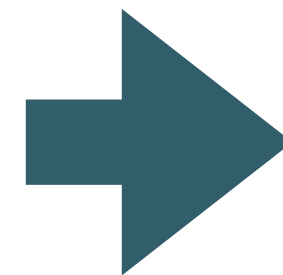
4 List of Site

---

5 Create/Edit Site


---

6 Settings



Logged in user details

- Email
- Password
- Summary Statistics:
  - Total number of Sites
  - Number visited



Version 2: Enhanced



1 Opening Screen / Splash Screen:

## Enhancements

2 Signup / Login

+

- *Register/Authenticate with Cloud Service (Firebase)*

3 Toolbar

+

- *Access to new views (7-10 below)*

4 List of Hillforts

+

- *Retrieve/Store list from Cloud Service (Firebase)*

5 Create/Edit Hillfort

+

- *Set Location of Site from current phone location*
- *Rate Hillfort (1-5 stars)*
- *Share Hillfort Details (email or other)*
- *Mark Hillfort as Favourite*

6 Settings

## New to Version 2

7 Search

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- *Find site(s) based on some search criteria*

8 Map

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- *Map of all Sites*

9 Navigator

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- *Special view to show current lat/Ing + map to guide student to precise location*

10 Favourites

- *Quick access to sites marked as favourite*

Components						Site Features		Navigation		Persistence		Git	
Baseline (V1)	<ul style="list-style-type: none"><li>- Site List</li><li>- Site Edit</li></ul>		<ul style="list-style-type: none"><li>- Name</li><li>- Description</li><li>- Single Images</li></ul>		<ul style="list-style-type: none"><li>- Cancel</li><li>- Delete</li></ul>		<ul style="list-style-type: none"><li>- None</li></ul>		<ul style="list-style-type: none"><li>- none</li></ul>				
	<ul style="list-style-type: none"><li>- Splash Screen</li><li>- Site Create</li></ul>		<ul style="list-style-type: none"><li>- Up to 2 Images</li></ul>		<ul style="list-style-type: none"><li>- Up</li><li>- Add</li></ul>		<ul style="list-style-type: none"><li>- None</li></ul>		<ul style="list-style-type: none"><li>- simple repo</li></ul>				

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Good (V1)	<ul style="list-style-type: none"><li>- Signup/Login</li></ul>	<ul style="list-style-type: none"><li>- Up to 4 Images</li><li>- Visited checkbox</li></ul>	<ul style="list-style-type: none"><li>- Logout</li></ul>	<ul style="list-style-type: none"><li>- Site (JSON)</li></ul>	<ul style="list-style-type: none"><li>- commit history</li></ul>
	<ul style="list-style-type: none"><li>- Settings</li></ul>	<ul style="list-style-type: none"><li>- Date Visited</li><li>- Additional notes</li><li>- Edit Location</li></ul>	<ul style="list-style-type: none"><li>- Settings</li></ul>	<ul style="list-style-type: none"><li>- User (JSON)</li></ul>	<ul style="list-style-type: none"><li>- tagged releases</li></ul>



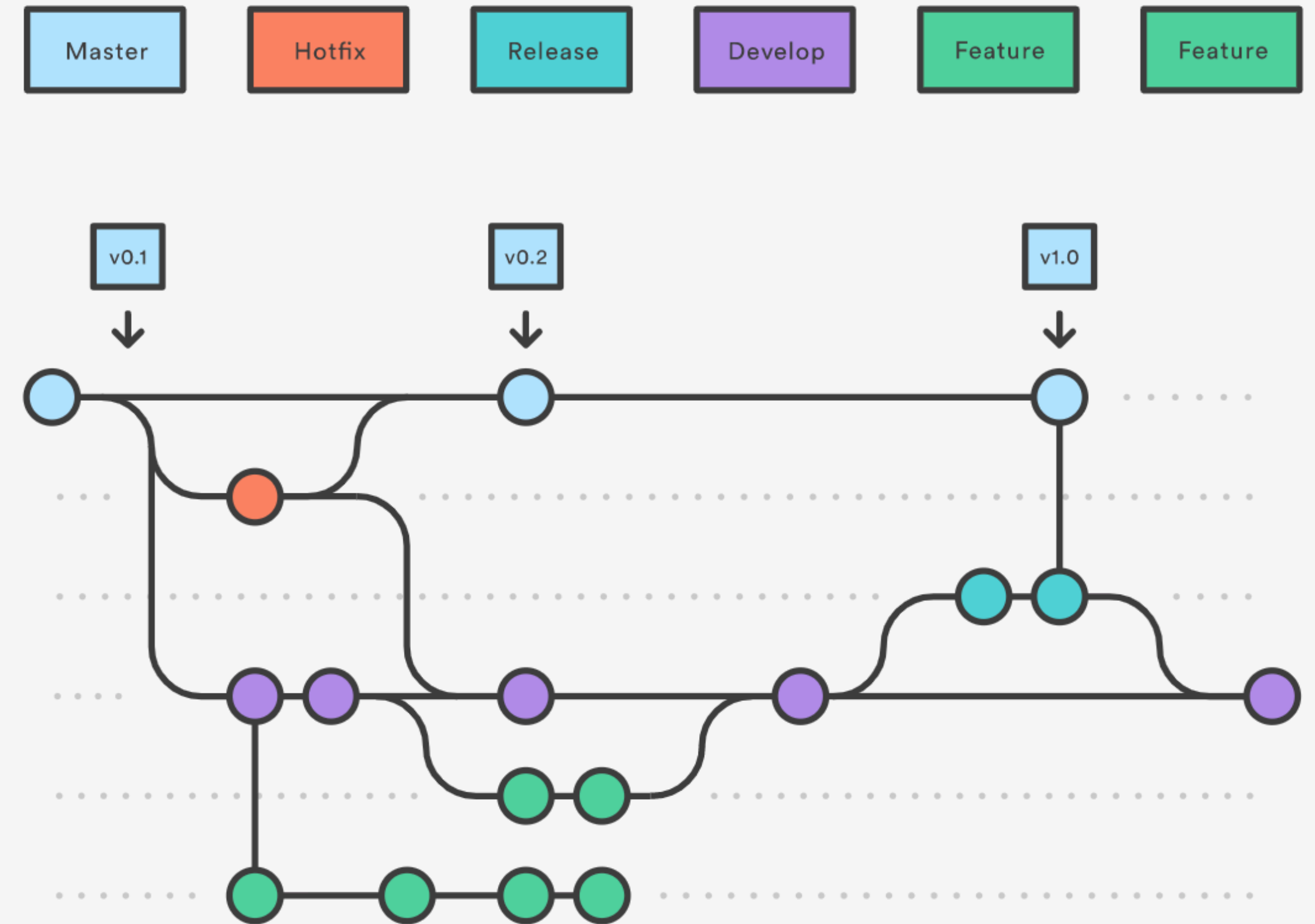
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Good (V1)	- Signup/Login	- Up to 4 Images - Visited checkbox	- Logout	- Site (JSON)	- commit history
	- Settings	- Date Visited - Additional notes - Edit Location	- Settings	- User (JSON)	- tagged releases
Excellent (V2)	- Map of all sites	- Rate Site	- Navigation Drawer	- firebase db (images locally)	- develop branch
	- Favourites	- Current Location Detection	- Landscape support	- firebase authentication	- feature branch

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Outstanding (V2)	<ul style="list-style-type: none"> <li>- Search</li> </ul>	<ul style="list-style-type: none"> <li>- Mark as Favourite</li> </ul>	<ul style="list-style-type: none"> <li>- Android Navigation Component</li> </ul>	<ul style="list-style-type: none"> <li>- firestore images</li> </ul>	<ul style="list-style-type: none"> <li>- release branch</li> </ul>
	<ul style="list-style-type: none"> <li>- Navigator</li> </ul>	<ul style="list-style-type: none"> <li>- Share Site</li> </ul>	<ul style="list-style-type: none"> <li>- Photos direct from Camera</li> </ul>	<ul style="list-style-type: none"> <li>- offline strategy</li> </ul>	<ul style="list-style-type: none"> <li>- hotfix branch</li> </ul>

# Gitflow Workflow

Gitflow Workflow is a Git workflow design that was first published and made popular by [Vincent Driessen at nvie](#). The Gitflow Workflow defines a strict branching model designed around the project release. This provides a robust framework for managing larger projects.

Gitflow is ideally suited for projects that have a scheduled release cycle. This workflow doesn't add any new concepts or commands beyond what's required for the [Feature Branch Workflow](#). Instead, it assigns very specific roles to different branches and defines how and when they should interact. In addition to feature branches, it uses individual branches for preparing, maintaining, and recording releases. Of course, you also get to leverage all the benefits of the Feature Branch Workflow: pull requests, isolated experiments, and more efficient collaboration.



<https://www.atlassian.com/git/tutorials/comparing-workflows/gitflow-workflow>



2020								
Semester	S	M	T	W	T	F	S	
	20	21	22	23	24	25	26	
October	4	5	6	7	8	8	10	
1	11	12	13	14	15	16	17	
2	18	19	20	21	22	23	24	
November	3	25	26	27	28	29	30	31
4	1	2	3	4	5	6	7	
5	8	9	10	11	12	13	14	
6	15	16	17	18	19	20	21	
December	7	22	23	24	25	26	27	28
8	29	30	1	2	3	4	5	
9	6	7	8	9	10	11	12	
10	13	14	15	16	17	18	19	
11	20	21	22	23	24	25	26	
January	27	28	29	30	31	1	2	
	3	4	5	6	7	8	9	
	10	11	12	13	15	16	16	
	17	18	19	20	21	22	23	
	24	25	26	27	28	29	30	

Assessment Schedule

Saturday  
January 30th

Assignment  
Submission



# Submission Guidelines

Deadline : January 30th - 11:00pm

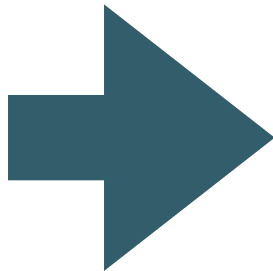
Submit  
single  
word  
document

Student Name :  
Demo Video URL :  
Project Repo URL :

Grade Band	Components	Site Features	Navigation	Persistence	GIT
Baseline					
Good					
Excellent					
Outstanding					

Additional Comments:

Template On  
Course Web



## Project Submission Template

Student Name :  
Demo Video URL :  
Project Repo URL :

Grade Band	Comp	Features	UI	GIT
Baseline				
Good				
Excellent				
Outstanding				

Additional Comments:

An archive of a word document  
to be submitted with  
assignment 2



Short Video Demo (8 minutes max)

Template  
Structure

Student Name :  
Demo Video URL :  
Project Repo URL :

Github Repo (invite it private)

Grade Band	Geo	Features	UX	GIT
Baseline				
Good				
Excellent				
Outstanding				

Short Comment on  
each achievement  
(< 20 words per cell)

Additional Comments:

Additional comments (optional)

Suitable Image or Logo  
Appears for limited period

Standard signup / login screen  
2 Fields: Email Address + Password

Context Sensitive Menu options:

- Up
- Logout
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- Cancel
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All Site, each Site:

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