Assignment 2 Briefing

Continuous Assessment

Assignment 3

Enterprise Web Development

Mobile Application Development

Assignment 3 Spec

Web Application + API V2

Mobile Application V2
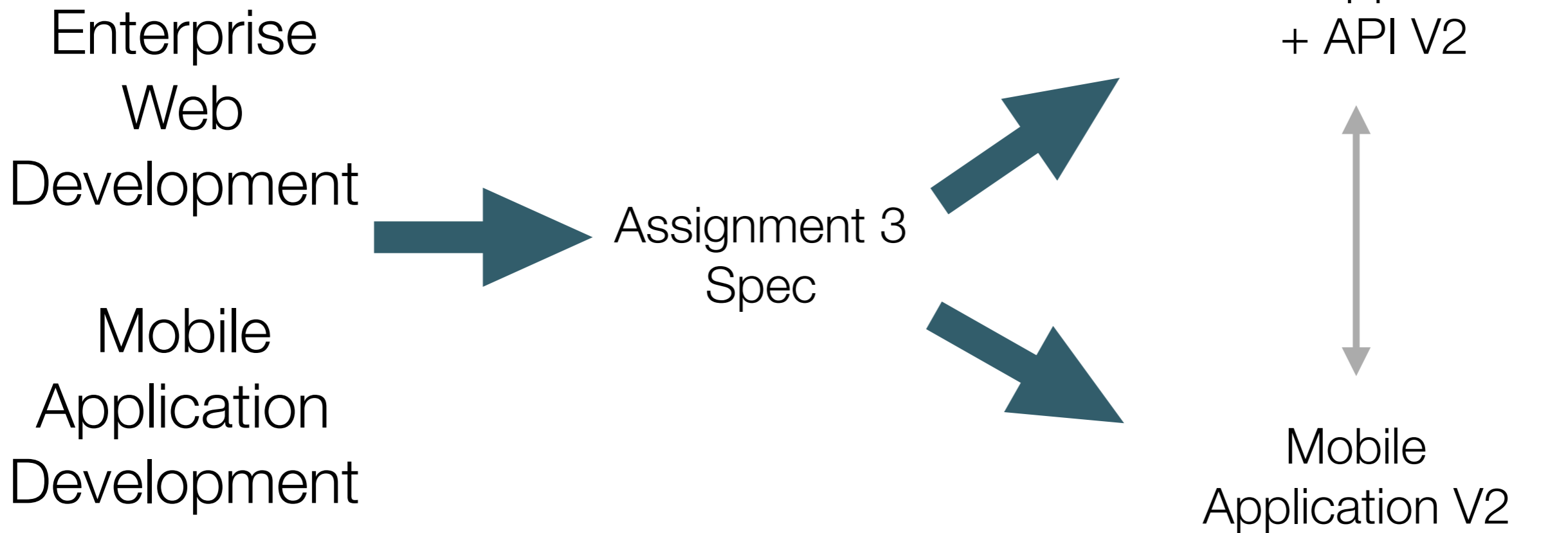
Agenda

- Submission Guidelines

- Specifications

- Grading Spectrum

Submission Guidelines

Cover Page

- Submit cover page as single PDF.

- Cover page to contain:

  - Student name and id.

  - Brief non-technical description.

  - Links to repository hosting your code.

  - Link to Deployed Web App

  - Credentials for web application (user & admin)

  - All on single page.

Source Repos

- For each assignment create a git separate repository (repo).

- Commit often (with suitable messages).

- Tag iterations using consistently styled tag names.

- Provide read-access to your repos if you wish to keep private

Presentation

- Project will be presented - allocated a 20 minute slot on Monday January 8th

- Attended by Tuition team only

- 10 Minute presentation (with slides)

- 10 Minute demo + Q&A

- Slides to consist of walk though of demo via screen shots + supporting explanatory text

- Slides to be submitted on moodle with cover page

- 7-12 slides approx

Specification

Specification (carried over)

- Develop a Microblog/twitter like application

- Two standalone applications:

  - A Web Application

  - A Mobile Application

- Features:

  - Shared Features (present in both apps)

  - Features unique to each app

Shared Features (carried over)

1. Enable User Signup / Registration / Login

2. Enable user to post 140 character tweets

3. These tweets are persisted, and will be reloaded when a user logs in.

4. Support viewing all tweets user has posted - the users public timeline

5. Allow a user to delete a subset of tweets

6. Allow a user to delete all tweets

7. Allow a user to edit account settings (email, password, and other details).

Features (carried over)

- Deployed to an public server (heroku)

- View the timeline of another user

- View a 'global' timeline, of all tweets from all users

- Separate 'admin' account with:

  - Ability to add/remove users

  - Ability to delete tweets from any user, individually or in bulk

New Features: Images + Social

- Incorporate images 'inline' into tweets

- Introduce 'Social' Features: following/followers:

  - Be able to follow members

  - Be able to see merged timeline of members user is following

  - Be able to see followers of any given user
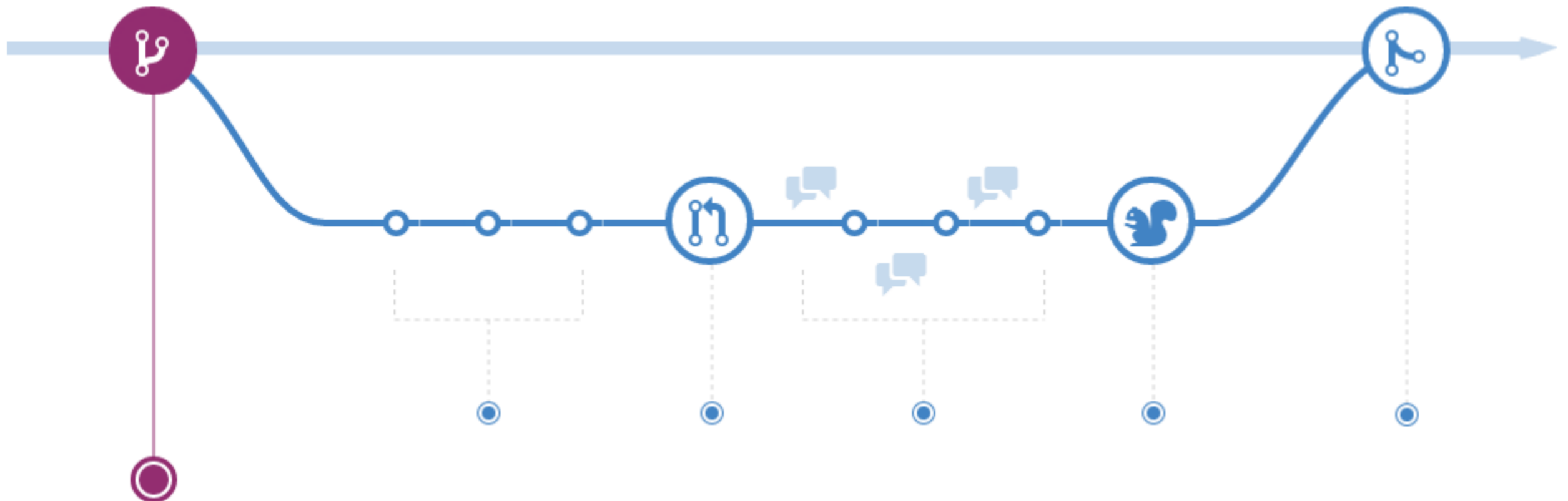
New Features: Security

- Sanitisation input & output

- enhanced cookies, Hashing & salting passwords

- jwt

New Features: Deployment

- Integrate techniques from Devops into web app deployment

  - heroku

  - heroku + other (zeit or glitch)

  - Amazon (with mlab mongo)

  - Amazon with mongo in Amazon

New Features : Git Branching Models (1)

- Many development organisations employ more sophisticated branching and merging models that we have been using to date

- E.g. Git Flow:

  - https://guides.github.com/introduction/flow/

Branching Models (2)

- http://nvie.com/posts/a-successful-git-branching-model/

- Research, select and implement more sophisticated model

- Branching model to be summarised in 'readme.md' on repo
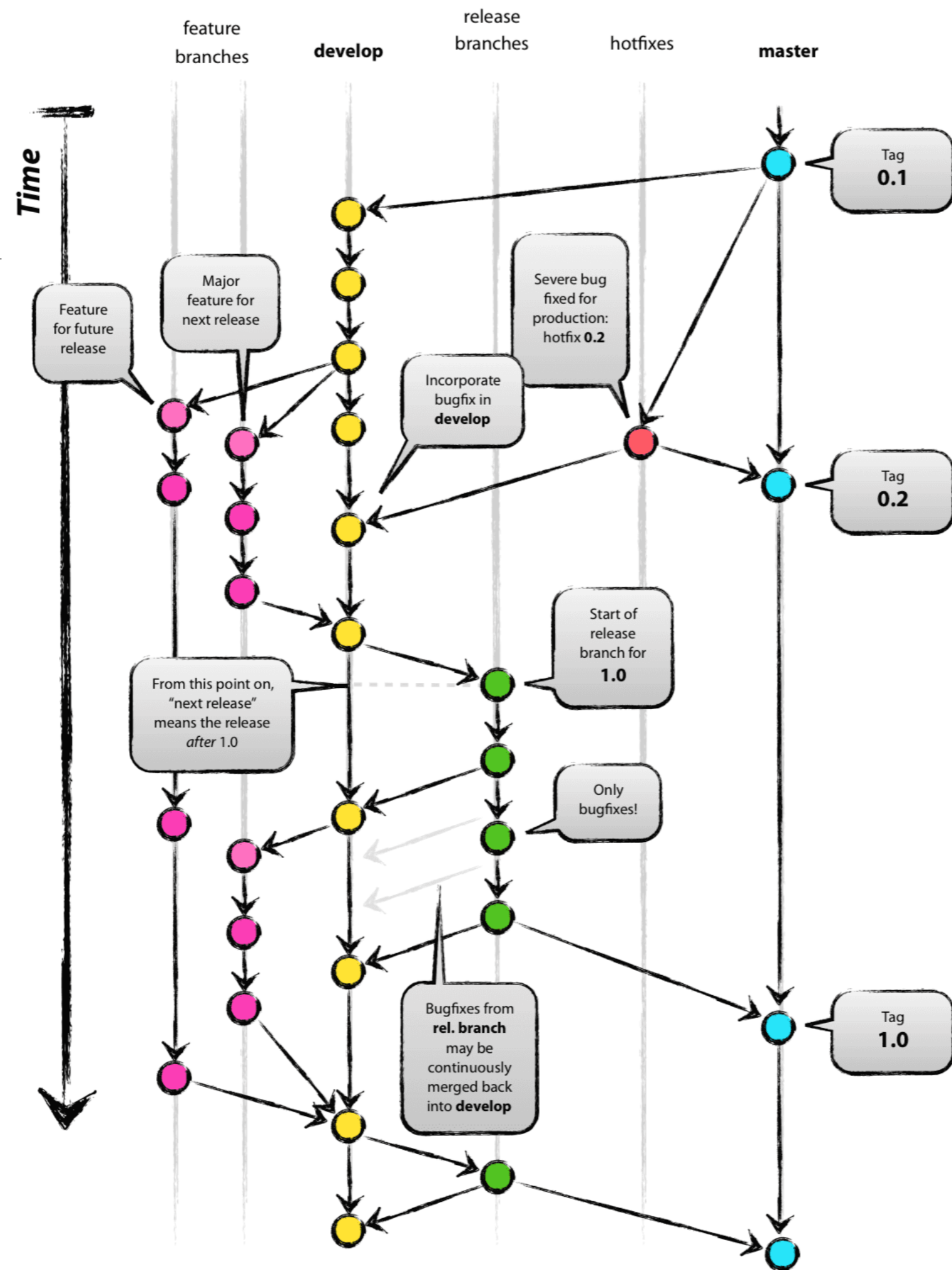
Grading Spectrum

Grade Allocations

Enterprise Web Development			
Security	25%		
Assignments	75%		
Breakdown of the 75%			
Assignment 1	35%		
Assignment 2	65%		

Assignment 2

	Features	UX	Git	Deployment	security
	45	25	10	10	10
baseline	Assign 1 Features + API + API Unit Tests	Validation, Responsive	git + commit History	heroku	Basic Cookies
good	Social (following/ followers)	SPA (basic)	quality readme	Heroku + another (eg glitch, diet)	Enhanced cookies, Sanitisation of input & output
excellent	Images in Tweets	SPA (routers)	Tagged releases	+ amazon (with m-lab mongo)	Hashing & salting passwords
outstanding	Admin with Analytics Dashboard	SPA (components Aurelia UX or other)	Branch-based workflow.	+ amazon with mongo on amazon	JWT