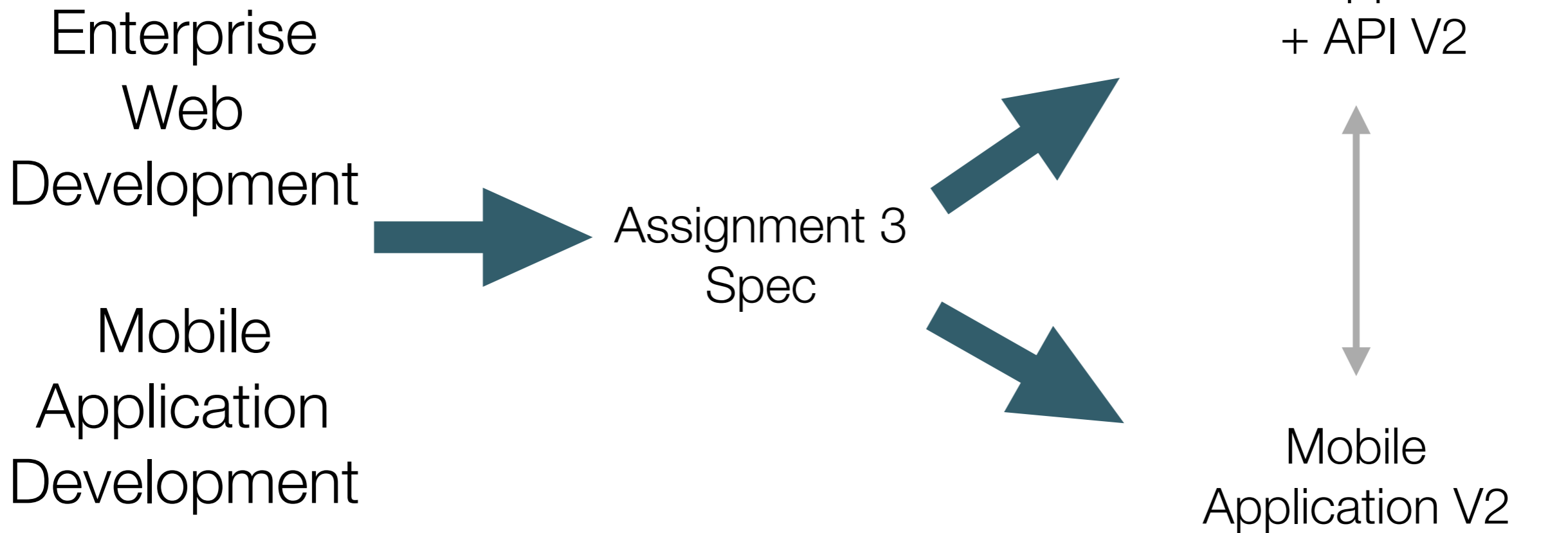


Assignment 3 Briefing

Continuous Assessment

Assignment 3



Agenda

- Submission Guidelines
- Specifications
- Grading Spectrum

Submission Guidelines

Cover Page

- Complete and submit the supplied cover page template.
- Cover page to contain:
 - Student name and id.
 - Brief non-technical description.
 - Links to repository hosting your code.
 - Link to Deployed Web App
 - 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 with your tutors. Tutor ids will be provided.
- In the case of the Android app, submit an apk file.

Presentation

- Project will be presented - allocated a 20 minute slot on Monday January 9th
- Attended by Tuition team only
- 10 Minute presentation (with slides)
- 10 Minute demo + Q&A
- Slides to consist of walk through 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).

Web Only 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
 - For admin user - render a 'social graph'

New Features: Security

- Sanitisation input & output
- enhanced cookies, Hashing & salting passwords
- jwt
- Additional auth techniques (e.g. 2 -factor or Oauth)

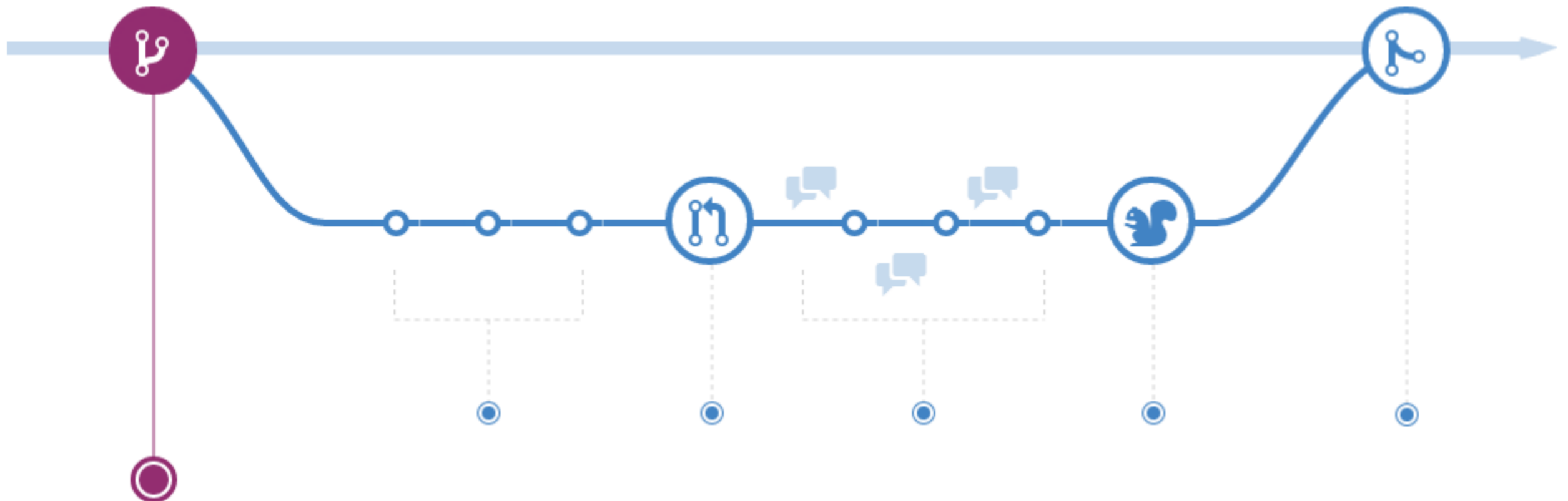
Apart from JWT, these features
apply to web app only

New Features: Deployment

- Integrate techniques from Devops into web app deployment
- Achievements credited to Enterprise Web module - not Devops
 - heroku
 - Amazon (with mlab mongo)
 - Amazon with mongo in Amazon
 - Amazon with docker

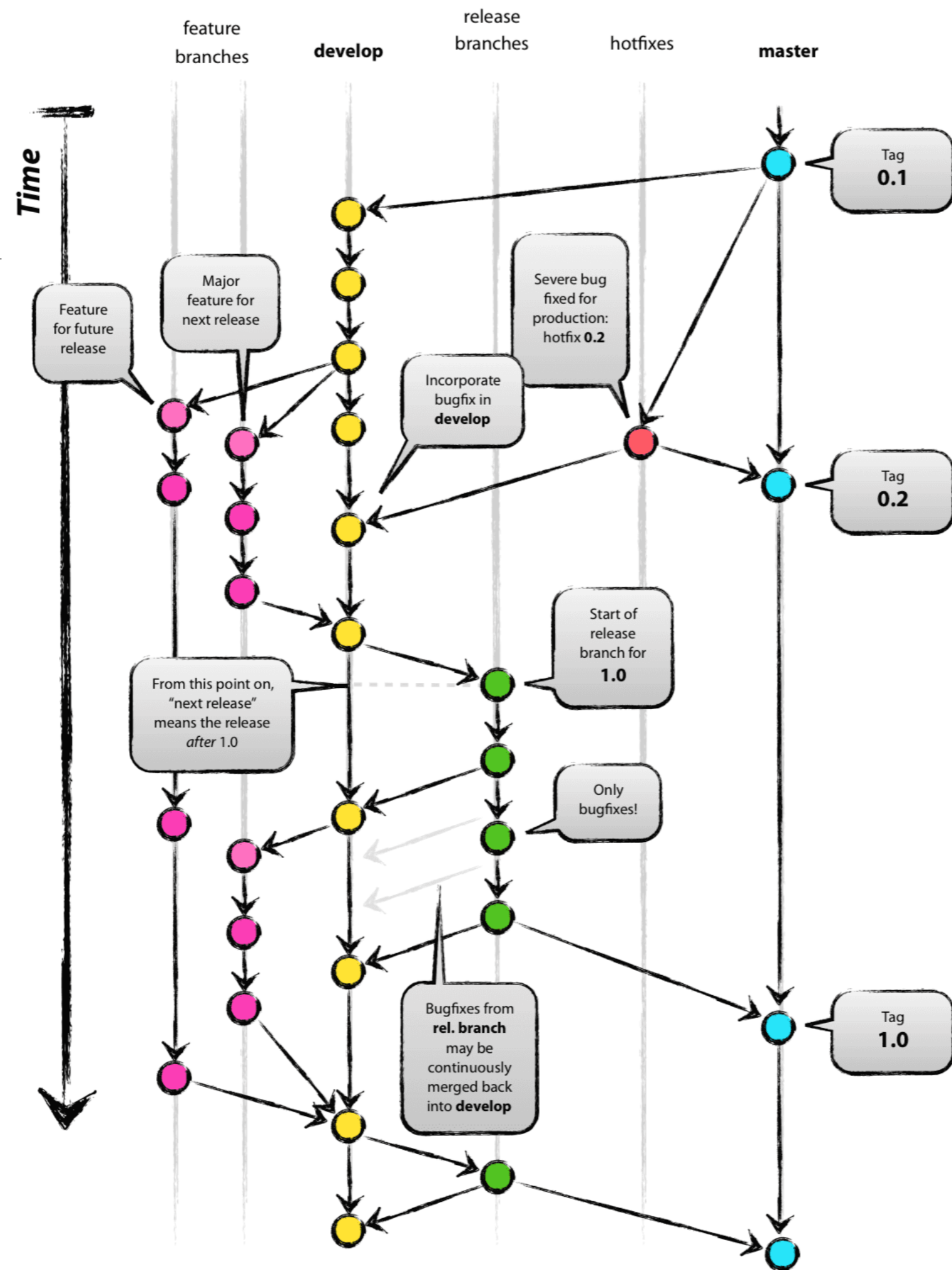
New Features : Git Branching Models (1)

- 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

	security	web	mobile	git	Deployment
baseline	sanitisation input & output (web only)	as specified for assignment 1 + API + unit tests	As specified for assignment 1 - using API in addition to local in memory data structures	git + commit history	heroku
good	enhanced cookies, Hashing & salting passwords (web only)	Images + Social model (followers, following) Basic SPA	Social (following/followers)	Tagged releases + quality readme	amazon (with mlab mongo)
excellent	jwt (web + android)	Router driven SPA, Composite views	images + background updates	Branch-based workflow. http://bit.ly/1WeHsJu	amazon with mongo
outstanding	additinoal auth techniques (e.g. 2-factor or Oauth) (web only)	Social Graph Render in Admin User	Sync - cache with service on login a settings defined set of tweets	Comprehensive branching model http://bit.ly/197szRP	Amazon with docker

Grade Allocations (approximate)

Enterprise Web Development			Mobile App Development		
Security (report + assignment 3 demo)	25%				
Assignments 1,2,3	75%				
Breakdown of the 75%					
Assign 1	35%		Assign 1	35%	
Assignment 2	10%		Assignment 2	10%	
Assignment 3	55%		Assignment 3	55%	
Assignment 3 Breakdown	Web Features	80%	Assign 3 Breakdown	Mobile Features	80%
	Deployment	20%		Git	20%