COSC 499: Capstone Software Engineering Project

Dr. Bowen Hui Computer Science University of British Columbia Okanagan

GitHub Projects

- A way to organize PRs, issues, and tasks on a Kanban board
- How are these related?
 - Breakdown features into tasks per person \rightarrow task board
 - Team collaborates on code repository \rightarrow PRs
 - Notice something wrong? Flag the problem to get it fixed \rightarrow issues
 - Each issue is automatically connected to a task card

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- A way to organize PRs, issues, and tasks on a Kanban board
- How are these related?
 - Breakdown features into tasks per person \rightarrow task board
 - Team collaborates on code repository \rightarrow PRs
 - Notice something wrong? Flag the problem to get it fixed \rightarrow issues
 - Each issue is automatically connected to a task card
- For more details on projects: https://docs.github.com/en/issues/planning-and-tracking-with-projects
- See resource for creating project boards
 - <u>https://docs.github.com/en/issues/organizing-your-work-with-project-boards/m</u> <u>anaging-project-boards/about-project-boards</u>
 - Try using the "Automated kanban with review" template

- Everyone reviews project status and workflow with this board

backlog	this sprint	in progress	in review	done
6 backlog/accepted ideas/projects + ···	ø planning + …	() live +	(3) dissemination/roll-out/handover + ···	16 complete +
project-planning#80 opened by prilisto2 Gits Max sheep harming values	srigiect-planning#17 opened by phil8192 status tone peries 4	Payments data for public good Us 1 of 1 Super-training/102 opened by lovisendan Bessenii Strater clovering geographic filter clovering geographic filter clovering	Categorising contents of lorries in errors-border goods sroject-banking #18 opened by philips2 Mit 192 Mi	ON Olobal Platform - Mapping the urban forest U- & of 4 project-planning#85 opened by phil192 Of the Digden chainer elsee
project-planning#55 opened by louisanoten	project-planning#56 opened by louisanolan	0 ····	Synthetic data using generative	deeplearning environment hacking java open data public python shellscript vision
anvirunnant, time socies	Citil Big data economics Transce Net people and places research time series	project-planning#19 opened by ph/l8192 International economics	Mile deep learning generative had public pythen system research	Automated report generation Pr 1 of 2 project-planning#54 opened by
project-planning#66 spened by phil8192	•	0	Understanding characteristics of high	eperational public visualisation
Pessarch	project-planning#39 opened by phil0192 cities economics stats	project-planning#52 opened by foulsandlan ML assessme sconomics stats	growth firms II, 4 or 6 project-planning#28 opened by	National Materials Datahub Project-planning#69 opened by pNIII192
project-planning#68 spaned by ph/8192 ph/8192 day charactering day learning Table watering	representation representation	Ime series Development Developmen	phil6192 NLD Booscore Mig data Recking Not Internal data public python research 1235	GIS bio deta anvoisament See Brockers anvoisament synthetic data time series vision visualization F.C.
people and places vision	DIS ME attes deep tearning vision 3%	Ioulsangtan ML NS avesome deep learning		Public transport access to services
project-planning#67 opened by phild192 DetsScops OR	project-planning#57 opened by louisanolan DataSciCres 015. 107. assessment	python stars vision Pows of tenants within social		P. 4 of 0 project-planning#14 opened by philato2 DDB # come Machine Text
0	big data economics Xma series. Ineneport S	residential accommodation		visualization \$4.00
Antipolitic planting with a panel by philips 2 ML assessment in clustering Greet learning Thicking ML learner	sroject-planning#72 opened by louisancian	pArtiel192 Mill agent based model chastering paties python visualisation 21506		()
Bottom, Received 3757	MLP avecome Not operational	Indicator for housing quality Indicator for housing quality Indicator for housing quality		philato2 economics research
		project-planning#12 opened by phil8192 Mg (biggstab sities deep tearning help wanted (soli2) (bythin research		Classification of financial services Plot of 7 project-planning#24 opened by

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backlog	this sprint	in progress	in review	done
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project-planning#60 opaned by project of the second by project of the second by project of the second	project-planning#17 opened by phil192 phi	Payments data for public good (1 of 1 project-blancing#107 opened by louisendan messene (bit data interes) sconentice (bit data interes) sconentice (bit data interes) sconentice (bit data interes)	Categorising contents of lorries in cross-border goods project-adaming/18 goand by philip (2000) Million (2000) Million (2000) Million (2000) Million (2000) Million (2000) Million (2000)	(b) UN Global Platform - Mapping the urban forest
project-planning#55 opaned by louisanolan DB M averaging other according according to a service 4	project-planning#56 opened by tovisanolan Giti ing ann accounties propiest-planning#56 opened by tovisanolan propiest-planning#56 opened by tovisanolan propiest-planning#56 opened by tovisanolan	.	Synthetic data using generative emodels models project-planning#50 opened by phills192 See Seming generative het public invites control research	Inva Bosendata (2000) (pethon) Shell scruth (vision) (2000) (C Automated report generation (C) 1 of 2 project-planning#54 opened by
oroject-planving#66 spaned by phil8192 Bit: 1527 big data Pacting Appendix	project-planning#39 opened by phile192 ctime sconemics insta	project-planning#52 opened by louisanotan we second a second by sec	O Understanding characteristics of high growth firms d, 4 of 6 project-planning#28 opened by pivilit9	Buisanolan Convertional Color visualisation (Color visualisation) (Color visualisation)
oroject-planning#68 spaned by phil8192 000 BM Enters clustering deep lanning Tally werner people and polece vision	U 2 of 4 project-planning#106 opened by philat92 BSS MC little: deep tearing vision	Novel approaches to the Living Costs and Food Survey project-staning/370 opened by fouriendan See Staning Staning	NLT Second Collect Institute for Internal data (5000 jupiton) research (5100	GIS Dischit Benzissenen BERNormalizer (seender public) synthetic date Thes same vision visualization () CP Public transport access to services ()
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	ing ally present in grantman 2	Dindicator for housing quality indicator for housing quality privet-planning/12 opened by privet-planning		philiting connection processing () of 2 project-planning#24 opened by philiting philiting

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project-planning#55 opened by louisanolan Old Ma avesone cities sconomics environment time series 4 22	project-planning#56 opened by louisanolan (55) Sig data accountics plannes hot beggle and places research	the of 7 project-planning#19 opened by pNI8192	Synthetic data using generative models project-planning#50 spened by phil6192 dee learning (contractive (bod)	ave opendata code python advet acrigit vision
oroject-planning#66 spened by pNi8192	0	D	Collegenteen system (system)	project-planning#54 opened by Ioulsanolan R operations: public visualisation
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project-planning#15 opened by philato2 ML avecome Skatering dees tearing Stability Com Terres	blg data economics time series. Presenter: () project-planning#72 opened by	SET	ntial accommodation t-planning#87 opened by 22 gent based model disatering python visualisation	38305			generative panels research transport visualisation	
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			Ag data eities deep learning anted public python research scraping				B, 6 of 7	'

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- Each card can be assigned to one or more person(s)
- (Optional) The colorful tags provide additional info to categorize the cards



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- (Optional) The colorful tags provide additional info to categorize the cards
- Manage your own cards



Alternative View for Weekly Checkpoints

۵	🙀 OctoArcade Invaders						
	🗄 Planning 🕤 🛄 Sprint Board 🛛 🖽 Alpha 🛛 🗉 Roadmap 🛛	🗄 My work 🛛 🗄	Fea	atures 🛛 🗄 Priority 🗍	By person 📗 🔟 Status	Board 🛛 🖽 By status	🗄 By Sprint
Ŧ	Title ····	Status •		Assignees ····	Priority •••	• Labels	
~	🐬 Squad 1 🔞						
1	⊙ [Tracking] Allow users to perform a manual resetting #1100	Done 🔽		Shiftkey -	High	- duplicate enhanceme	ent epic f-
2		Done 💟	÷	🗿 rileybroughten 🚽	High	-	Ψ.
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6	O investigate latency	Not Started 🕥	×			π.	
+	Add item						
~	💂 Squad 2 🧕						
7	Integrate with Leaderboard Service #811	Done 🔽		🌒 dusave and jclem 🚽	High	enhancement	
8	⊙ [Tracking] Upsell / Growth experience #806	Planning 🛐	÷	🗑 mariorod 🚽	Medium	- backlog feature	
9		Planning 📷		azenMatt -	Low	7	
10	• Free and paid levels #816	Building	÷	🍘 JannesPeters 🚽	Low	- need help	*

- See "Table" layout in

https://docs.github.com/en/issues/planning-and-tracking-with-projects/customizing-views-inyour-project/changing-the-layout-of-a-view

GitHub Issues

- Unrelated to a feature or task, you might notice a change is needed

		- maighta			
	Filters - Q is:issue is:open	C Labels 11	中 Milestor	nes 1	New issue
Track with issues	□ 🕑 14 Open 🗸 134 Closed Author - Label -	Projects 🗸	Milestones -	Assignee -	Sort -
	Image: Second system Fix Permission Error (bug) #302 opened on Apr 26, 2022 by carson-ricca Image: Initial Release		វូង្ក 1	()	
Connect issues to	Fix UQJ Status for Java and Parsons Questions bug #299 opened on Apr 26, 2022 by carson-ricca			(3)	
tasks on your	 Course module backend permissions and error messages need to be made enhancement #221 opened on Jul 19, 2021 by aadiraju 			*	
project board	Fix profile details bug #201 opened on Jun 18, 2021 by aadiraju		វូប្ហ 1	(
	 Avoid suppress on UQJ filters in course-question-snippet bug #199 opened on Jun 18, 2021 by aadiraju 			(
See	□ ③ Submission Detail View #157 opened on Apr 7, 2021 by carson-ricca ♀ Initial Release			8	

() Code () Jesues 14 1 Dull requests 4 () Actions [] Projects 1 [] Wiki () Security 14 loc Incights

https://docs.github.com/en/issues/organizing-your-work-with-project-boards/tracking -work-with-project-boards/adding-issues-and-pull-requests-to-a-project-board

11

Tracking Team Progress

- Recall we want to track project productivity and team satisfaction
- Large class size prevents us from closely supervising each team

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- Large class size prevents us from closely supervising each team
- Past issues experienced in large Capstone:
 - Did not start implementation until too late
 - Individuals and teams had questions but did not ask until too late
 - Bullying issues and not brought up until too late
 - Individuals being frustrated and not brought up until too late



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- Large class size prevents us from closely supervising each team
- Past issues experienced in large Capstone:
 - Did not start implementation until too late
 - Individuals and teams had questions but did not ask until too late
 - Bullying issues and not brought up until too late
 - Individuals being frustrated and not brought up until too late
- Goal is to avoid "too late" situations
 - Use weekly checkpoints
 - Team log
 - Personal log
 - Peer evaluation assessment
 - Weekly in-class support



Clāss Over

Weekly Team Log (Expected Time: ~ 5 min)

- In repo as a new .md file
- One per team

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- In repo as a new .md file
- One per team
- Expected content for each entry:
 - Team name with work performed start date to end date
 - Recap your milestone goals:
 - Which features were in the project plan for this milestone?
 - Which tasks from the project board are associated with these features?
 - Burnup chart (velocity)

Overview

Weekly Team Log (Expected Time: ~ 5 min)

- In repo as a new .md file
- One per team
- Expected content for each entry:
 - Team name with work performed start date to end date
 - Recap your milestone goals:
 - Which features were in the project plan for this milestone?
 - Which tasks from the project board are associated with these features?
 - Burnup chart (velocity)
 - Quick reminder of username \rightarrow student name
 - Table view of completed tasks on project board (by which username)
 - Table view of in progress tasks on project board (by which username)
 - Test report
 - Optional text: Additional context that we should be aware of

Overview

Details

Example: Burnup Chart

- Accumulative view of tasks done, tasks in progress, and tasks left to do

- Visual representation of team's velocity

Planned work
 (straight line at top)
 vs. completed work



Example: Compl	eted Tasks			
- Screenshot from G	Team member username (redacted)			
	156 📀 Upload Backup #287		Done -	
Associated	157 🕑 Edit Job Details frontend styling #289		Done	
Associated	158 O Edit job details client-side validation #290		Done	
task and issue	159 O Projections Styling #291		Done	
IDs	160 O Push custom order to projector #294		Done	
	161 O Change projector account password #295		Done	
	162 Styling - Fix un-archive styling #277	-	Done	
	163 🕑 Styling - Match trash and archive icons and overlay #278		Done	
	164 \bigcirc Styling - Move archive and delete icons to be hidden behind edit b #27		Done	
	165 🕑 Styling - Clean up unneeded styles #280		Done	
	166 O Styling - Consolidate repeated styles into one file #281		Done	
	167 📀 Refactor DB + Backend to make manager a VARCHAR #134		Done	
	154 O Finish import CSV #285		Done	
	155 O Download backup #286	Called *	Done	
	128 O Job Details Overlay Window - Graphs and Summaries #61		Done	

Example: In Progress Tasks

- Screenshot from GitHub Projects

In Progress

 Number of In Progress tasks should be relatively fewer than number of Completed tasks
 username (redacted)

168	History Screen - Crazy Query #261		In Progress	
169	• History Screen #220	A Contraction of the second se	In Progress	
170	\odot Change static dropdown options to dynamically pull from Global D #148		In Progress	
171	\odot fix mass_remove.php to end assignment date (see desc) #269	· ·	In Progress	
172	• Help screen #296	the set	In Progress	

Test Report

- Put all tests in the tests/ directory in your repo
- Are tests passing?
- Regression testing:
 - Have a script to run all tests (check availability for your framework)
 - Ensure new feature does not break existing work
 - Script output showing tests run and summary of total tests passed/failed
 - Screenshot or pipe output to a dated file and include in repo
- Automated coverage (later)

Example: Test Report

- Django test output
- Run command
- "ok" is pass

(cdk)david@earth:carlsberg-cdk \$ fab test [localhost] local: www/manage.py test webservices --settings=settings_test -v 2 --failfast Creating test database for alias 'default' (':memory:')... Creating tables ... Creating table auth_permission Creating table auth_group_permissions Creating table auth_group Creating table auth_user_user_permissions Creating table auth_user_groups Creating table auth_user Creating table auth_message Creating table django_content_type Creating table django_session Creating table django_site Creating table django_admin_log Installing custom SQL ... Installing indexes ... No fixtures found. test_GET_returns_xml (webservices.tests.HelloWorldTestCase) ... ok test_GET_with_basic_auth_returns_200 (webservices.tests.HelloWorldTestCase) ... ok test_GET_without_basic_auth_returns_401 (webservices.tests.HelloWorldTestCase) ... ok test_POST_returns_amendelxml (webservices.tests.HelloWorldTestCase) ... ok test_POST_save_request_in file (webservices.tests.HelloWorldTestCase) ... ok test_POST_saves_content_in_file (webservices.tests.HelloWorldTestCase) ... ok test_POST with basic_auth_returns_200 (webservices.tests.HelloWorldTestCase) ... ok test_POST_without_basic_auth_returns_401 (webservices.tests.HelloWorldTestCase) ... ok

Ran 8 tests in 0.091s

OK

Destroying test database for alias 'default' (':memory:')...

11 tests passed - have a banana!

Done.

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Clockify

- time tracking, integrated with GitHub

Weekly Personal Log (Expected Time: ~ 3 min)

- In repo as .md file
- Same file per person (append new entry to file)

Weekly Personal Log (Expected Time: ~ 3 min)

- In repo as .md file
- Same file per person (append new entry to file)
- Expected content for each entry:
 - Applicable date range
 - Type of tasks you worked on (screenshot from Peer Eval question)
 - Recap on your week's goals
 - Which features were **yours** in the project plan **for this milestone**?
 - Which tasks from the project board are associated with these features?
 - Among these tasks, which have you completed/in progress in the last week?
 - Optional text: Additional context that we should be aware of

- Workload distribution questions
 - Decision making (e.g. task assignment, design choices, code patterns, stylistic variations)
 - Talking/discussions (in-person and online)
 - Doing project work (independently or together)

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 - Decision making (e.g. task assignment, design choices, code patterns, stylistic variations)
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- Satisfaction questions
 - Variety of factors on team dynamics

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 - Talking/discussions (in-person and online)
 - Doing project work (independently or together)
- Satisfaction questions
 - Variety of factors on team dynamics
- Types of tasks you worked on in the last week (checklist)

include in personal log

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 - Decision making (e.g. task assignment, design choices, code patterns, stylistic variations)
 - Talking/discussions (in-person and online)
 - Doing project work (independently or together)
- Satisfaction questions
 - Variety of factors on team dynamics
- Types of tasks you worked on in the last week (checklist)
- Additional context
 - Acknowledgement
 - Problems
 - Anything else

Your responses will **<u>NOT</u>** be released to teammates

include in

personal log



COSC 499 001 2023W1-2



2023W1-2

Announcements

Assignments

Quizzes

Grades

People

Pages

My Media

Course Evaluation

Team Formation

Home

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> E Courses

Calendar
匠 Inbox
U History
? Help

COSC 499 001 2023W1-2 Capstone Software Engineering Project

COSC 499: Capstone Software Engineering Project

For Winter 2023 Terms 1-2

- Download the <u>course outline</u> that covers course objectives, grading, and various course and university policies. We will review this in the first lecture but if you miss it or forget the information, you can always come back and reference this document.
- Office Hours: Tuesdays 2:00-3:00pm and by appointment.
- Important Dates: See the <u>university calendar</u> for important dates and deadlines.
- Available Projects: See the list of projects.

<u>III</u> V	iew Course Stream	
<u>₹</u> V	iew Course Calendar	
¢ν	iew Course Notification	ns
Do		
4	discord server for capstone COSC 499 001 2023W1-2 Capstone Software Engineering Project Sep 5 at 6:24am	×
Ŕ	team formation survey now available COSC 499 001 2023W1-2 Capstone Software Engineering Project Sep 8 at 3:34pm	×
**	Consent to Study COSC 499 001 2023W1-2 Capstone Software Engineering Project	×

2 noints

Courses / Capstone W2023 / Evaluations

Preview Evaluations 📀

List of Evalua Hello, K Phan. You ca Show 10 + entries	n complete a evaluation or view the	results if they are released by your instructor.	Back to Instructor View Search:
Evaluation	↑↓ Completion	↑ Closing Date	↑↓ Actions
Weekly #3	0 / 1	Sept. 27, 2023, 11:59 p.m.	
Weekly #4	0 / 1	Oct. 4, 2023, 11:59 p.m.	
Weekly #6	0 / 1	Oct. 18, 2023, 11:59 p.m.	
Weekly #5	0/1	Oct. 11, 2023, 11:59 p.m.	
Weekly #9	0/1	Nov. 8, 2023, 11:59 p.m.	

Considering the team meetings and team discussions this past week (both online and in-person), how much time would yc spent talking?	ou say each person
Please assign each member of the team (including yourself) a percentage value (0-100%).	
Erin Hiebert	-%
K Phan	-%
Teresa Saller	-%
Justin Schoenit	-%
Seth Akins	-%
Percent distribution values	Total: 100% Remaining: 0% s must add up to 100%.

Considering the team meetings and team discussions this past week (both online and in-person), how much time would you say each person spent making decisions?		
Please assign each member of the team (including yourself) a percentage value (0-100%).		
Erin Hiebert	-%	
K Phan	-%	
Teresa Saller	-%	
Justin Schoenit	-%	
Seth Akins	-%	
	Total: 100% Remaining: 0% Percent distribution values must add up to 100%.	

Considering the team meetings and team discussions this past week (both online and in-person), how much time would you say each person spent working on the project?

Please assign each member of the team (including yourself) a percentage value (0-100%).

Erin Hiebert	-%
K Phan	-%
Teresa Saller	-%
Justin Schoenit	-%
Seth Akins	-%
	Total: 100% Remaining: 0% Percent distribution values must add up to 100%.

Which of the following are you dissatisfied with? Check ALL that apply.

- $\hfill\square$ the amount of work everyone is contributing
- \Box how tasks are allocated to individuals
- □ the way people help each other
- □ people's willingness to express their opinions and raise concerns
- □ people's openness to other's differing opinions
- $\hfill\square$ the way our team interacts with each other
- $\hfill\square$ the progress the team is making as a whole
- □ how other team members view your opinions and/or your work
- \Box how other team members are treating you overall

What types of tasks did you work on this past week? Check ALL that apply. When you are done, take a screenshot of this question with your answers and include it in your personal weekly log.

- □ System administration (related to server, network, operating systems, etc.)
- Project planning
- □ Assigning people to tasks
- Deciding on task priorities
- Creating designs on paper or in digital format
- Coding
- Writing automated tests for your code
- Doing manual testing for your code
- □ Testing other people's code to see if it breaks
- □ Documenting your code
- □ Reviewing other people's code
- Writing class reports
- Giving presentations
- □ Watching other team's presentations
- Making video demos
- Watching other team's video demos
- Team meetings
- □ Helping others with their work
- □ Receiving help from others on my work
- □ Figuring out a problem on my own (e.g., research, troubleshooting, approach to bug fix)
- □ Something else (explain separately)

Is there anyone you would like to acknowledge who helped with your progress this week?		
Your response here		
Is there any context that we should be aware of that might explain the problems you encountered this week?		
Your response here		
Provide any other comments you want to share with the teaching staff.		
Your response here		

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 - Have your work merged
 - Be prepared to do live demo

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 - Plan for/work on upcoming week
- Topics of discussion:
 - Review GitHub collaboration process and repo insights
 - Project progress: review task board
 - Receive technical opinions and advice
 - Team dynamics



Next Steps



- Complete team coding exercise
- Complete your first weekly checkpoint, which includes:
 - Team log
 - Personal log
 - Peer evaluation
- Next week: Software Engineering
 - Software development lifecycle
 - Agile development process
 - Test driven development