Project Timeline Worksheet

For this activity, I want you to think about what you want to be presenting on November 18th (in 13 weeks), and the steps you need to take to get there.

Week		Class	Goals	Important Deadlines
Week 1	Aug 29–Sep 1	Capstone Project	Confirm scope; define HA payload commands (take app code and translates to call that HA can understand), create task board/ Timeline worksheet	
Week 2	Sep 2–Sep 8	Capstone Project	D1: core: build UI screens & nav (Sleep/Focus/Calm); Get UI to render properly with navigation menu, buttons take you to screens (other pages). D1: Make sure Pi's can connect to same network D1: Work on fetch requests from app: get, post, delete etc. get app to communicate, add error logging messages to ping HA and make sure calls work/ they're connected (this is the big step of getting the app permission to access HA, then having HA execute my payload (on/off command) to my breadboard/ led	
Week 3	Sep 9–Sep 12	Capstone Project	D1: PRESENT! Goal: Get the app interface up with different accessible screens (runs a personal server/host via React Native. From the app, click a button that sends a call to the HA (hosted on first Pi,this call is the payload message to	Deliverable 1 due 9/12

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			turn on or off, toggle switch), HA then sends the command to my breadboard and turns the led on and off. The breadboard Pi is listening for commands with my python script that then triggers a GPIO pin that sends the on signal to the LED.	
Week 4	Sep 13–Sep 19	Capstone Project	D2 app features, virtual machine testing, 3D modeling designs: settings UI (per-mode color/intensity); Refine app. If able to, add more features: communicate with display, work on UI custom features like user customizability for app (color change, for app screen and color change for modes).	
Week 5	Sep 20–Sep 26	Capstone Project	D2 logic: Add debugging steps or settings tab for user interface to make sure everything is communicating properly (comms check) Edit call settings from the app to potentially communicate or be able to send hex (color combos as payload instead of just on/ off commands) find any necessary commands for communication)	

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Week 6	Sep 27–Oct 3	Capstone Project	D2 work on enclosure (start to polish CAD model/ multiple designs) start planning for smart bulb integration. Can I pair bulb with HA, what powers bulb and handles DAC comms, how will bulb fit on enclosure, what will circuit/ power source look like	
Week 7	Oct 4–Oct 10	Capstone Project	D2 Goal: finalize CAD v1; print fit/vent tests; Showcase CAD designs, circuit designs, app changes/ updates, possibly mobilize entire set up with the virtual machine	Deliverable 2 due 10/10
Week 8	Oct 11–Oct 17	Capstone Project	D3 build: work on final CAD designs, maybe multiple prints fine tune app (see if errors, check commands, add additional features if time allows)	
Week 9	Oct 18–Oct 24	Capstone Project	D3 finish: assemble lamp; see how pi's function in enclosure; finalize docs (document changes); demo prep. Hopefully have a fully mobile system in an enclosure. Goal: have everything in enclosure, present final CAD designs/ earlier designs, (hopefully) present finished product	Deliverable 3 due 10/24
	Fri, 09/19	In-class user testing		

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Week 6	Wed, 09/24			
	Fri, 09/26			**M2.** Mentor meeting report **P2.** User testing reflection
Week 7	Wed, 10/01			
	Fri, 10/03	Academic writing and communication.		
Week 8	Wed, 10/08			**P3.** Title, abstract, and paper outline due
	Fri, 10/10	Deliverable presentations + user testing		**P4.** Second Deliverable
Week 9	Wed, 10/15			**P5.** Symposium abstracts due
	Thu, 10/16	Symposium Abstract Deadline		
	Fri, 10/17			**M3.** Mentor meeting report
Week 10	Wed, 10/22			
	Fri, 10/24	Deliverable presentations + user testing		**P6.** Third Deliverable
Week 11	Wed, 10/29			
	Fri, 10/31			
Week 12	Wed, 11/05	Practice Presentations		
	Fri, 11/07	Practice Presentations		**M4.** Mentor meeting report
Week 13	Wed, 11/12	Practice Presentations		
	Fri, 11/14	Practice Presentations		
Week 14	Mo, 11/17	Practice Presentations (final prep)		**P7.** Link to presentation materials + slides
	Tu, 11/18	SYMPOSIUM		
	Wed, 11/19			

Week		Class	Goals	Important Deadlines
	Fri, 11/21			**P8.** Draft final report due
Week 15	Wed, 11/26	Thanksgiving Break		
	Fri, 11/28	Thanksgiving Break		
Week 16	Wed, 12/03			
	Fri, 12/05			**P9.** Final report due
				P10. Project video