

iMessage

Tue, Nov 15 at 3:03 PM

Judy Effendi

Hey dean I've been updating it

JE

I saw the feedback a couple days ago and made sure everything has been updated

Dean Eggenberger

DE

Oh okay awesome, thank you!

Ashley (cse 435)

A

did y'all see the example srs

A

53 pages long 😱

Jacob Zawacki

JZ

53? What's the short one you are looking at?

Ashley (cse 435)

A

pedestrian backup assist system

Jacob Zawacki

JZ

The backup collision one is 89 pages long

Judy Effendi

JE

Bruj

Ashley (cse 435)

A

the cruise control is 35

Okay so our version one is due Friday. I am looking at the website but I don't see a rubric description. Am I missing something?

Ashley (cse 435)

A

it's under templates

Does it open up for you when you click on it?

Ashley (cse 435)

A

click on pdf or doc on the side

Dean Eggenberger

DE

I clicked the pdf link

Ohhh 🙏 thank you!

Google doc for SRS:

1 Reply

Sign-in

docs.google.com



I will email it as well

Judy Effendi

JE

I'm going to have to leave class early. I recently lost two family friends and I'm currently home right now for the funeral. I might have to leave tomorrow's meeting early as well. I just wanted to let you guys it will be a tough week and I won't be able to put my full efforts in.

1 Reply

Dean Eggenberger

DE

That's totally understandable. I'm sorry for your losses,
Judy 💚

Google doc for SRS:

1 Reply

Dean Eggenberger

DE

I just pasted her template doc in if that's how we want to do it

Ashley (cse 435)

A

I'm so sorry for your loss. Take your time to be at home that's more important for sure, we got the srs!

Judy Effendi

JE

Thank you guys ❤️

I am so sorry Judy. Don't worry about the srs. Being with your family is much more important.

Do we need a prototype by Friday?

Jacob Zawacki

JZ

I'm assuming yes, but I don't think she's specifically mentioned it

I talked to some other groups and it sounds like they are just turning in a skeleton that they are making on Unity. Does anyone have any experience with Unity?

Dean Eggenberger

DE

I don't

DE

Scenario 1: Pedestrian starts at $y = -7$ and ends at position $y = 0$. Their initial speed is 10kph and their final speed is 0kph.

DE

Scenario 5: Pedestrian starts at $y = 0m$ and begins moving at 1.5 seconds. Their initial speed is 0kph and their final speed is 10kph.

So she said our prototype needs to be web based and have a visual aid of some sort. So like she needs to be able to click on a link and have our prototype pop up showing different scenarios visually

Ashley (cse 435)

we could use unity

A

i've used unity and maya in my animation classes

A

i could make a car and person in maya and import them into unity & then we just have to code the specific requirements in using C#

Wed, Nov 16 at 5:09 PM

Judy Effendi

JE

Hey guys. I'm gonna join into the meeting for a few minutes

Wed, Nov 16 at 8:55 PM

Prototype looks awesome!

Ashley (cse 435)

A

thank you!

Dean Eggenberger

DE

Yeah that looks really good

Thu, Nov 17 at 2:11 PM

Judy Effendi

JE

Hello, gonna try to join in to class today. If there's anything important let me know so i can try to join in

So we need to add sequence diagrams?

Dean Eggenberger

DE

I don't think that was ever required

It's weird that she said that

Thu, Nov 17 at 4:22 PM

Showed prof the prototype after class and she said it is perfect for Friday and we don't have to worry about the CSE server yet :)

Judy Effendi

JE

I finished my part, it was really simple so if you guys need me to take over a part let me know. Id love to try to help

Thu, Nov 17 at 5:54 PM

Dean Eggenberger

In class she also assigned us a peer review assignment in the beginning of class for us to complete by Saturday

DE

night

I am working on the paper and realized we have not dealt with alerting the driver. How do we want to alter the driver?

Also do we want to allow the driver to override the system?

We would have to change the SRS in a lot of places for alerting the user and override so I am thinking maybe we should leave it for the next iteration. What do you all think?

Fri, Nov 18 at 1:14 AM

I think the SRS document is looking pretty good for this iteration I put some comments on the document for what we need to make better for the next iteration. If anyone has a chance to do some proof reading tomorrow that would be good. It is due at 5 so I will probably turn it in around 4.

Fri, Nov 18 at 7:35 PM

Dean Eggenberger

DE

I think our SRS document is looking really good for our first iteration. I know we need to add a lot more but we'll get feedback and we'll have time to submit more iterations before the final submission

I think we should have driver override, since that would allow the driver the ability to take over during weird edge cases where it's dangerous to brake. This would take off some liability from our system since we can say that the driver chose to override the system in the event of an accident (which is controversial and from a legal perspective how manufacturers tend to operate).

I'd say we should make driver override more obvious than hitting the brake pedal, since if there's a pedestrian in the road and PCAS is braking to avoid collision, human instinct would be to do the same thing and brake. If the driver hits the brake but thinks PCAS is still active, they might let off the brake and assume PCAS will figure it out

DE

I might let off the brake and assume PCAS will figure it out for them which could be dangerous.

Mon, Nov 21 at 6:14 PM

Judy Effendi

JE

What is the review process? Dr Cheng never gave me instruction

Jacob Zawacki

JZ

There's a review template/instructions on the class website

Judy Effendi

JE

See it, thank you

Tue, Nov 22 at 4:33 PM

Dean Eggenberger

DE

Meeting 5 is happening now 

Judy Effendi

JE

Joining in a sec sorry

Dean Eggenberger

DE

No worries!

Reminders/tasks from todays meeting:

- Check the sections you wrote and see if there is any feedback that you need to edit
- brainstorm ideas for an override function
- look at scenarios in section 5.2 and see if you agree with them

We will have a meeting next Wednesday before the V2 is due. It think this will be a good time to discuss the prototype further.

Have a great Thanksgiving!

Tue, Nov 29 at 9:16 AM

Judy Effendi

JE

Hey, I'm going through Kira's suggestions and making changes that he suggested

JE

Mostly got everything. I added comments for the missing information we had which we can talk about in tomorrow meeting. It was mostly grammatical issues, rewording/reformatting

Tue, Nov 29 at 4:41 PM

Judy Effendi

JE

Hey guys I just remembered I have work 5-7 tomorrow. Any chance we can meet later tomorrow?

Later works for me

Jacob Zawacki

JZ

Same here

Judy Effendi

JE

Does 8 work?

Dean Eggenberger

DE

Yeah 8-9 works for me

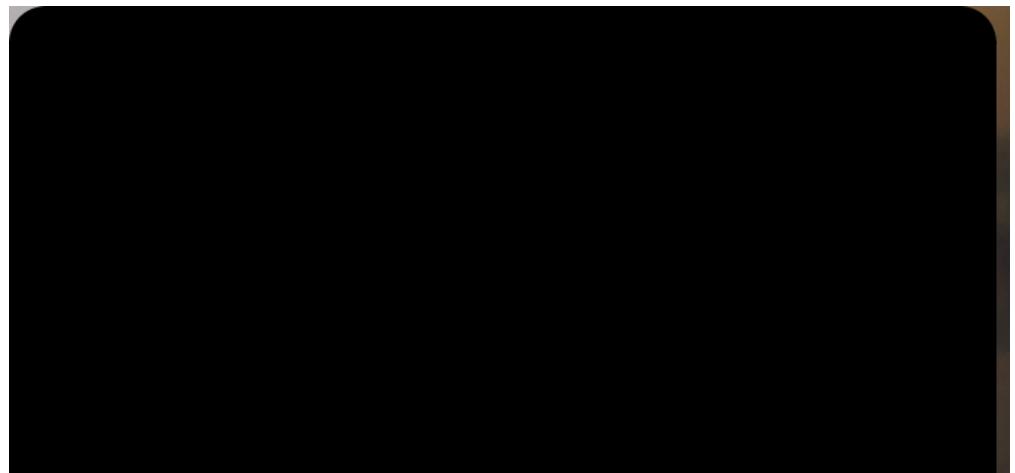
Jacob Zawacki

JZ

Works for me too

Works for me

Tue, Nov 29 at 10:23 PM





Can anyone read what this comment says after explain?

Judy Effendi

JE

What are these? Explain above of here

1 Reply

Also I am going through and changing wherever we type "PCAS system" to just "PCAS" because the s in the acronym is system

JE

What are these? Explain above of here

1 Reply

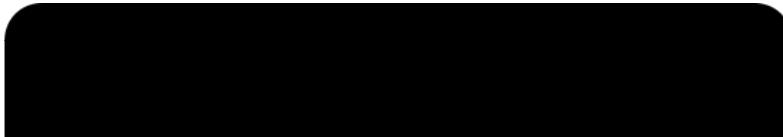
Judy Effendi

JE

Or*

Wed, Nov 30 at 9:53 PM

Dean Eggenberger





This is a rough draft for the attributes and methods of our domain model. I'm thinking we don't need any methods for the driver unless we want to add something like an OverridePCAS() method. I feel like we could add Walk(speed : double, direction : double) and Stop() methods to pedestrian as well but I remember someone mentioning in the meeting that we wouldn't need to add methods to pedestrian. Lmk if anyone has any feedback!

DE

Thu, Dec 1 at 9:59 AM

Judy Effendi

JE

I think that looks good dean! Feel free to email it to the professor for feedback if you wanted to

1 Reply

Thu, Dec 1 at 11:31 AM

That looks good to me. I think I would add the override method to the driver but I'm not sure.

1 Reply

Thu, Dec 1 at 2:55 PM

JE

I think that looks good dean! Feel free to email it to the professor for feedback if you wanted to

1 Reply

Dean Eggenberger

DE

Thank you! I'm emailing her now and will CC the group

That looks good to me. I think I would add the override method to the driver but I'm not sure.

[1 Reply](#)

Dean Eggenberger

DE

I'm adding that and the possible pedestrian methods in the feedback request email

Judy Effendi

JE

Ashley did the prof respond?

Ashley (cse 435)

A

no :(

Dean Eggenberger

I think we should do that

DE

EC video

^^

Dean Eggenberger

DE

I feel like we don't have to try too hard for the video. We could quickly plan it out and maybe record it during our Monday meeting

Thu, Dec 1 at 5:00 PM

Ashley (cse 435)

A

for scenarios 5-7, I think the information in the paragraphs are wrong ?

Ashley (cse 435)

A

can someone double check? I think just because the pedestrian has a delay on there movement for a certain time that doesn't mean that's how long they're in the path

[1 Reply](#)

A

i think we need to do more math no? to determine acceleration & the car's acceleration and when they'd collide?

also isn't the collision zone 1m north and 1m south of the z-axis? not 2m

A

1 Reply

Jacob Zawacki

JZ

Yep

Dean Eggenberger

We are assuming that the pedestrian has infinite acceleration, which just means they go from stopped to moving instantly

DE

I'm assuming that's to simplify things so we don't have to make those calculations

Jacob Zawacki

JZ

Yeah, that's what I'm thinking too

A

can someone double check? I think just because the pedestrian has a delay on there movement for a certain time that doesn't mean that's how long they're in the path

1 Reply

Jacob Zawacki

JZ

I do agree with this, definitely wouldn't be in the cars path for the whole time delay

Jacob Zawacki

JZ

Or rather, time in the vehicles path wouldn't necessarily be the same as the delay before moving

1 Reply

Dean Eggenberger

1 Introduction

1.1 Purpose

"The purpose looks good."

1.2 Scope

"Felt like the camera was the only sensor that would be used to make

CSE 435 - Inspection Summary - PCAS1

docs.google.com

DE

I highlighted in purple the suggestions from our inspection that we need to address our changes for

DE

Judy Effendi

Looks good

JE

I'll send my sequence diagrams by tonight or tomorrow morning. Working on them now

DE

We'll just need to go through the doc and list what we did to address the comments and include it in what we turn in tomorrow. I'm glad that someone asked about this at the end of class because it wasn't made very clear

JZ

Or rather, time in the vehicles path wouldn't necessarily be the same as the delay before moving

1 Reply

Ashley (cse 435)

so do we calculate it? could anyone help? im not the best with math lol it just seems like leaving it too simple may make it seem like our system isn't realistic

A

Ashley (cse 435)

the prototype website is updated with the tables and explanations for all 10 examples

A

my main concern is 5-7

Jacob Zawacki

JZ

I'll try and figure it out when I'm back in my room

Dean Eggenberger

I'm looking into it too

DE

So you're looking for the pedestrian's y coordinate over time for 5-7

Ashley (cse 435)

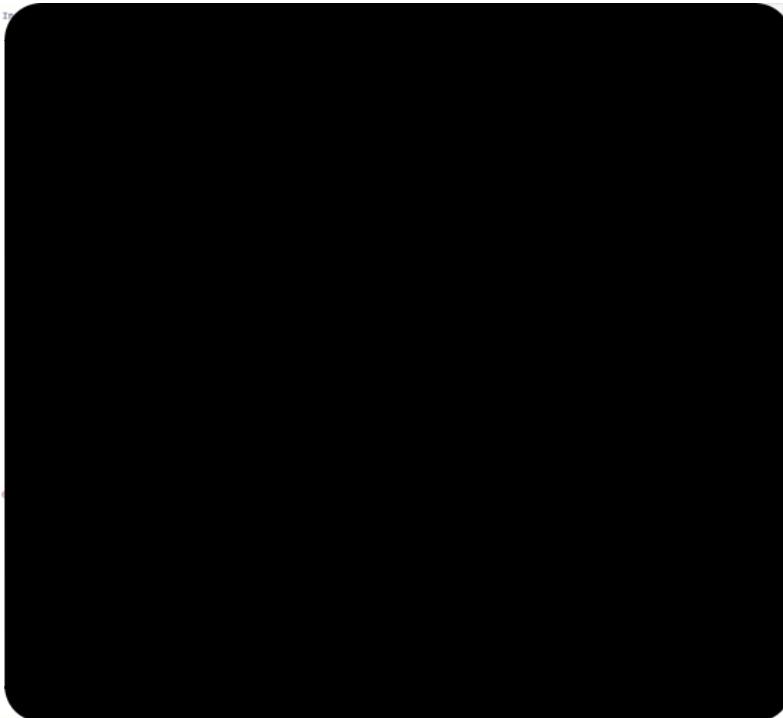
A

yes to see how long they'd be in the collision zone

A

also, for scenario 2 on our srs it says it's in the collision zone but it isn't in the collision zone? because it stops at (35,-2) and collision zone is (35,1) to (35,-1) low key tho i think we should add another meter to our zone for where the vehicle should stop cus the vehicle is 2m wide so it should have a buffer on top of that?

Dean Eggenberger

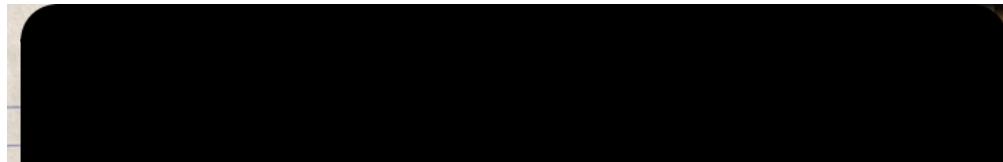


Here is some (poorly written) code for scenario 5 as I understand it

DE

Once I'm back at my computer in about 30-45 mins I can do more

Jacob Zawacki





JZ Speed physics, might be good to double check. Total time is how long the pedestrian will be in the way

Ashley (cse 435)

thank you sm lmao physics is my worst subject

so with the car accelerating at .25g which is 2.45 m/s will there be a collision in every scenario?

A

and the vehicle is 35m away from the pedestrian

Jacob Zawacki

Car has a steady velocity and slows down to not crash. Only ever accelerates after the pedestrian is out of the way to get back to the initial speed (13.9 m/s)

JZ

Ashley (cse 435)

In each scenario from E_72 I was just thinking what if in a

A In each scenario from 5-7? I was just thinking what if in a case the pedestrian moved out of the way quick enough before the car had to stop

1 Reply

A okayy

Dean Eggenberger

DE When does a pedestrian trigger PCAS? Is it a certain distance and within a range of angles relative to the car's path?

A in each scenario from 5-7? i was just thinking what if in a case the pedestrian moved out of the way quick enough before the car had to stop

1 Reply

JZ Jacob Zawacki

JZ Then the car would just slow down until the pedestrian is out of the way

Ashley (cse 435)

okay

A I need to add the animation videos but all the other info should be good if anyone wants to double check it

Dean Eggenberger

DE I added amendments to about half of the Peer Review doc in red

Judy Effendi

JE Dean could you let me know what functions you add to the model? I think some functionality will apply to the pedestrian moving scenario in the sequence diagram

Dean Eggenberger

DE Yeah! So far I've added DetectObstacle() to the Camera Sensor and Override() to PCAS system (which the driver can activate)

Hey everyone. Do you know if I need to include the Global Invariants and the Cyber Security Requirements in the Use case descriptions?

Fri, Dec 2 at 10:46 AM

Just a reminder to fix your sections and write what you did in the inspection summary

Fri, Dec 2 at 1:07 PM

Judy Effendi

JE

Assignments have been extended

Sun, Dec 4 at 2:23 PM

Dean Eggenberger

DE

Have we turned in our SRS v2 yet?

Judy Effendi

JE

We haven't

JE

I can turn it in

Don't forget that peer reviews are also due today

Judy Effendi

JE

Turning it in now unless anybody needs to make any changes

I don't need to make any changes

Dean Eggenberger

DE

Yeah I should be done too

DE

I think the review correction doc needs to be included too

Monday 11:02 AM

Dean Eggenberger



PCAS 1 Scenario Walkthrough

CSE 435 - PCAS 1 - Project Video

docs.google.com

DE

I put together a template for our video and edit access
should be on for everyone

DE

Judy Effendi

JE

Not sure when we were planning to meet but I have a
meeting from 5-5:30, im free anytime after

Dean Eggenberger

DE

Does 6-7 work for everyone?

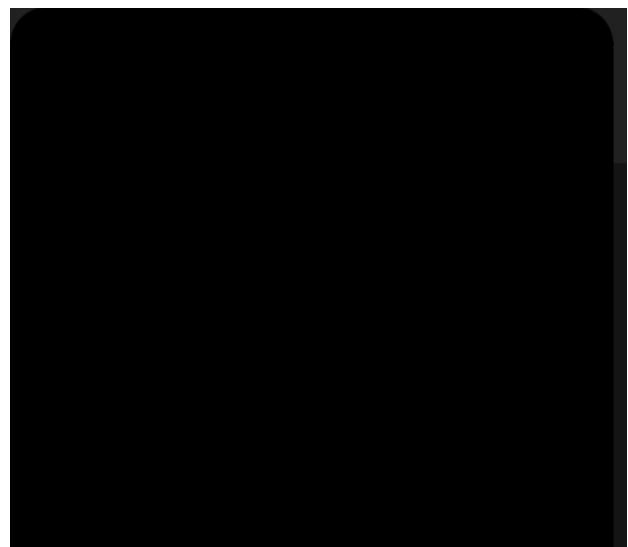
I could do 6

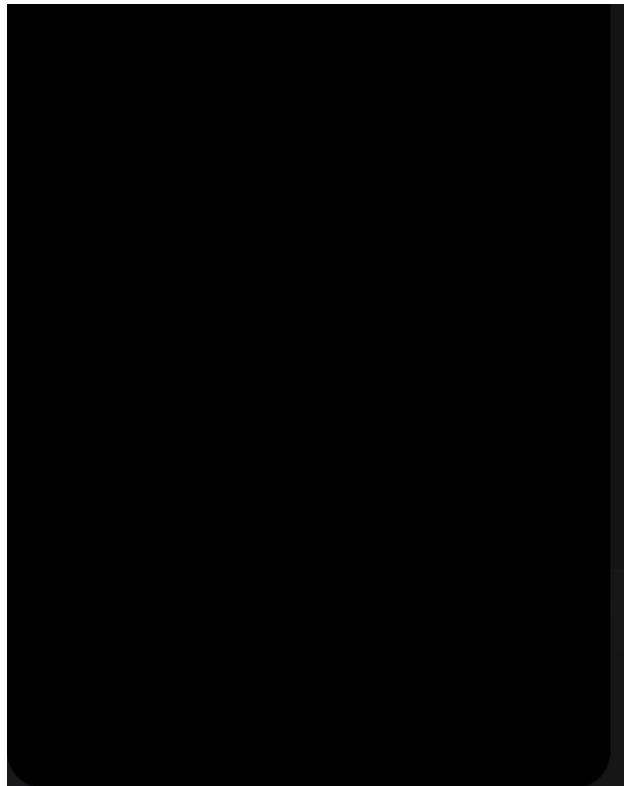
Jacob Zawacki

JZ

Works for me

Monday 4:13 PM





Just got this from Dr. Cheng

Ashley (cse 435)

the animations are not up yet, im still finishing them

A

i thought it was okay since this is just version 2?

Judy Effendi

JE

I think that we have to send this to our customer so I'm assuming that's why?

Ashley (cse 435)

i'll have it done by tmw night, they're just taking a little longer than expected but I thought since we had all the other information (the tables & explanations) that it was good for v2

A

Judy Effendi

JE

You did great! She didn't specify what she expected

No worries having them done by tmw should be good :)

Monday 6:03 PM

Dean Eggenberger

DE

Meetina now 

DE I forgot to mention, if anyone has additional resources or links to add you can either send them to me or create a IEEE citation under the references section of the SRS

Tuesday 10:18 AM

Do we need to turn in PowerPoint in somewhere?

Jacob Zawacki

JZ On d2l somewhere. There's probably a submission titled presentation or something

I see one but it is for the video I think

Dean Eggenberger

I think it's the "PCAS1: Final Project Presentations"

DE I think she just put the wrong description

DE I can turn it in if everyone thinks it's about ready

DE Turned it in but we can always change it up until 3

Thank you!

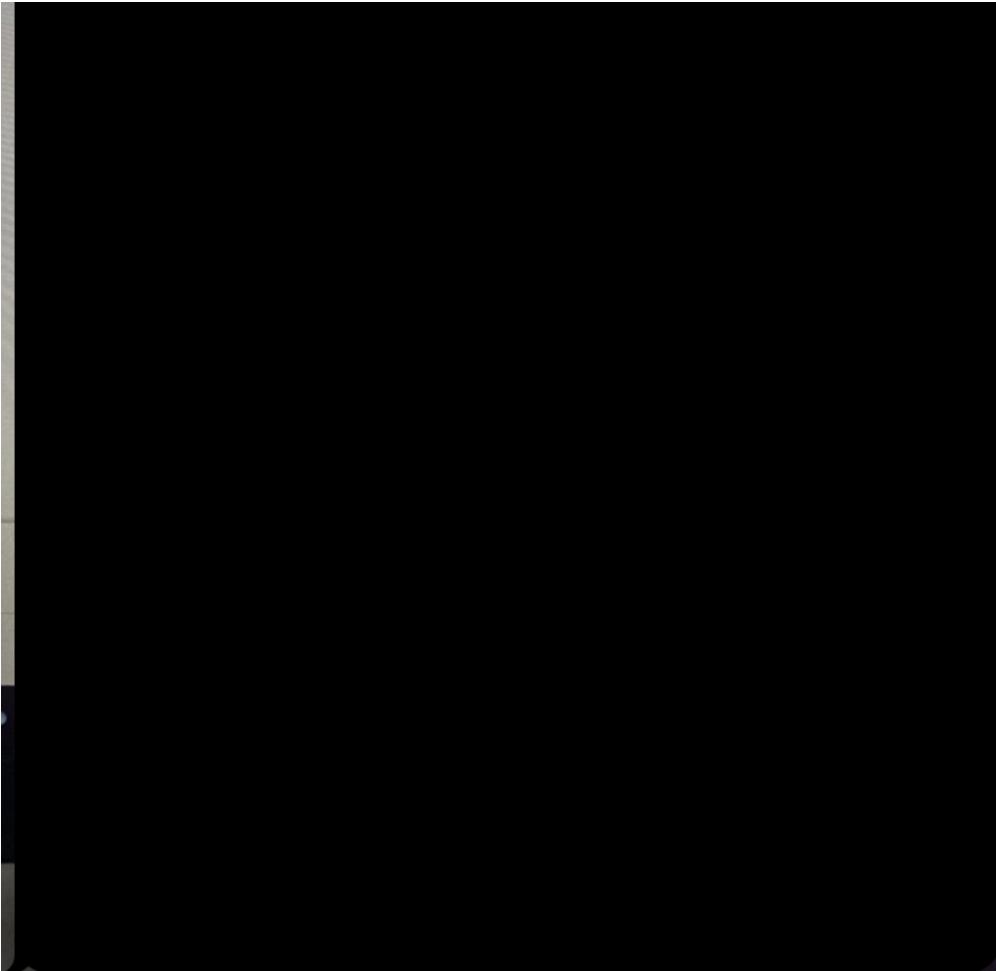
Dean Eggenberger

DE Of course!

Tuesday 2:32 PM

Judy Effendi

Pretty sure the video is due today



↓

JE

Shoot

Ashley (cse 435)

isn't the video separate from that? I seen on the class website it's extra credit

A

I just asked my friend and he said that it is not due today. He asked prof Cheng before class and it is not due today

Judy Effendi

JE

Okay I wonder why she has the rubric for the video on there then

Dean Eggenberger

He said "Chang" and not "Chen"

DE

-10%

lol

Dean Eggenberger

DE

Their Domain Model Diagram is a lot more comprehensive than ours

DE

They had a lot of user interaction though which PCAS doesn't need as much

Ashley (cse 435)

A

did i miss anything my wifi went out 20 mins ago & hasn't come back lol we keep having mini outages here

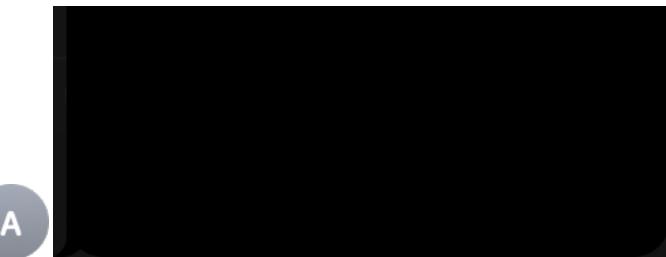
Nope you haven't missed much!

I like this group's slides

Tuesday 7:02 PM

Ashley (cse 435)





A

Jacob Zawacki

JZ

Nice

I asked prof cheng and she said the video is due on Sunday with the final SRS

Judy Effendi

Sweet

JE

Are we planning to meet for a run through tomorrow?

I think a run through might be good. What do you all think? It should only take like 10 min.

Judy Effendi

JE

I think we should

Dean Eggenberger

DE

Yeah I think we should too. I'll be traveling a lot of tomorrow but I think I should be available by 7-7:30

Tuesday 10:05 PM

Judy Effendi

JE

Okay if everybody's good with 7-7:30 we can do that

I'm good with that

Wednesday 12:45 PM

Hey how is the prototype coming?

Ashley (cse 435)

good, the animations are all done just need to upload them to the sight

A some family stuff came up tho, so I will be busy till late tn & won't be able to make it to the meeting /: & i won't be able to upload those till tn when i get home

Judy Effendi

JE No worries. I hope everything's okay!

Wednesday 4:01 PM

Judy Effendi

If this isn't going to take long, could we do 7:15? Going to the caf at 6 and I'm not sure I'll be back by 7

Dean Eggenberger

DE Yeah that works for me!

Works for me

Wednesday 7:12 PM

Judy Effendi

JE Did somebody send a link?

Dean Eggenberger

We can use the same link as we do for our meetings

DE I'lol send it in a min

Join our Cloud HD Video Meeting

msu.zoom.us



Thursday 5:55 AM

Ashley (cse 435)

okay two questions

first animations are up, can y'all lmk what you like better between case 1 & 2, first one has a play and pause button & the second has just a replay button lol I can't decide

A & two, do I go over all the scenarios in the presentations or do we just choose some? cus 10 is a lot

Thursday 7:46 AM

Judy Effendi

JE

Just choose some, don't think we have time

Thursday 11:46 AM

Judy Effendi

For case 1 shouldn't scenario 1 be put in case 2 since it's static then moving back

Not back^

JE

Rest of scenarios in case one is moving then static

Ashley (cse 435)

it just had the wrong title, thanks for catching that i just updated it

Judy Effendi

JE

Could somebody take a look at the site and lmk if u think anything's missing

Thursday 5:45 PM

Dean Eggenberger

DE

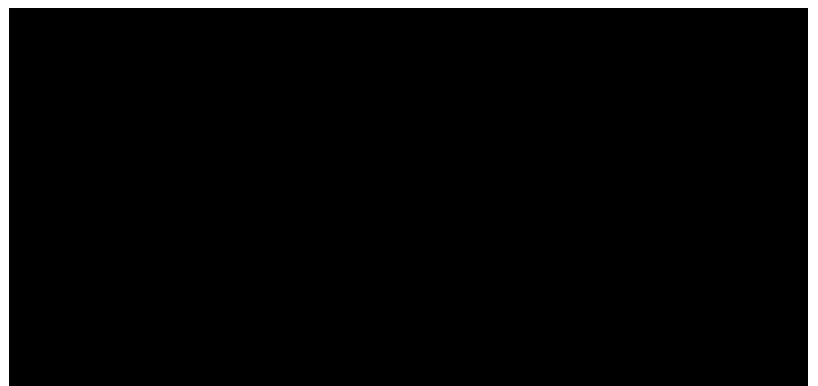
I'm going to be putting out emails throughout the next day or two for meetings that already happened or that we won't meet for, unless I specify it here

This is to get the extra credit of having 15 meetings logged

DE

Just so no one worries or goes to the meeting

Friday 11:10 AM



Judy Effendi

JE

Looks good!

Dean Eggenberger

That's great!

DE

The only thing is that at the end Judy and Ashley's roles are swapped at the end, I think that's my fault, sorry about that

DE

I just noticed it on the in-class presentation yesterday morning so I was paying closer attention, it's probably fine to keep

Friday 4:44 PM

Dean Eggenberger

DE

Again, not actually meeting today unless we want to discuss the project here

Yesterday 3:41 PM

Dean Eggenberger

SRS and Prototype v 3:

What changes/additions need to be made?

Feedback:

Missing state diagrams: -5 points

Prototype - Sample scenarios:

"Good but add to relevant section" - 3 points

Prototype:

Support user input -20 points

Maybe we can have an override button that is possible to press when the car is stopped after PCAS activates brake

DE by wire.

Ashley (cse 435)

is the user input from before or after i added the animations & play/ pause button?

[3 Replies](#)

Dean Eggenberger

^ just read over our feedback,
-20 points - add user input to prototype

-5 points - state diagrams

-3 points - add more detailed description to prototype in srs doc

DE

A is the user input from before or after i added the animations & play/ pause button?

[3 Replies](#)

Dean Eggenberger

I'm not sure, but I'm thinking maybe after because they just graded it

DE

Ashley (cse 435)

hmm

A how can it be changed? what did the other groups do?

A

is the user input from before or after i added the animations & play/ pause button?

[3 Replies](#)

Dean Eggenberger

How hard would it be to add an override button to work when the car goes to 0 speed? Or we could possibly add a speed knob or something

DE

Even if they don't work I think adding something would show a change and we'd get some points

Ashley (cse 435)

A you mean like add an override button & when it's pressed the car stops?

3 Replies

A they're all premade animations & it'd be hard to turn it into a working game type in a day

A you mean like add an override button & when it's pressed the car stops?

3 Replies

Dean Eggenberger

DE Our system only allows overriding when stopped, so it would probably be greyed out until the car is stopped, and then you can press it. After we press it the car would probably just stay stopped since it would be a lot to also add a speed slider

Ashley (cse 435)

A also tho, what input does she even want the user to control? because all the scenarios give us the speed/location like everything lol

Dean Eggenberger

DE Yeah, I have no clue

A you mean like add an override button & when it's pressed the car stops?

3 Replies

Ashley (cse 435)

in all our scenarios the car is only stopped when in front of the pedestrian

A so if they override it they run over the person?

Ashley (cse 435)

but i could add a button that lites up while stopped

A

*lights

Dean Eggenberger

DE

Yeah I think I would just add the button that lights up when stopped that says "override". As long as the vehicle remains stopped they won't get ran over. It's not much but it's what they're asking for technically

A

Ashley (cse 435)

yah I can add that

Dean Eggenberger

Okay sweet, thank you!

DE

If anyone else has ideas to add user input then add some suggestions. I'm not sure if the button will give us full points on user input but it's something

Ashley (cse 435)

I might send her another email lol

A

asking

Dean Eggenberger

Yeah I don't know what she's expecting

Also, are we good with the 13 meetings we have?

DE

We need 10 and get 2 points EC for each, so we'll get 6 points extra at this point, but I could work on adding two more. I just can't think of anything else and don't want her to be suspicious that I'm just making things up

Today 11:47 AM

Hey everyone. Sorry I have the flu and haven't had a chance to look at the paper yet. Has anyone has a chance to make a state diagram?

Judy Effendi

JE

I made them

Thank you!

Today 1:10 PM

Judy Effendi

JE

Do we have someone who's turning in our docs today?

Today 2:17 PM

Ashley (cse 435)

I can turn in the SRS & prototype, also the prototype is due tmw instead now lol I have a VISA so I got an extension

A

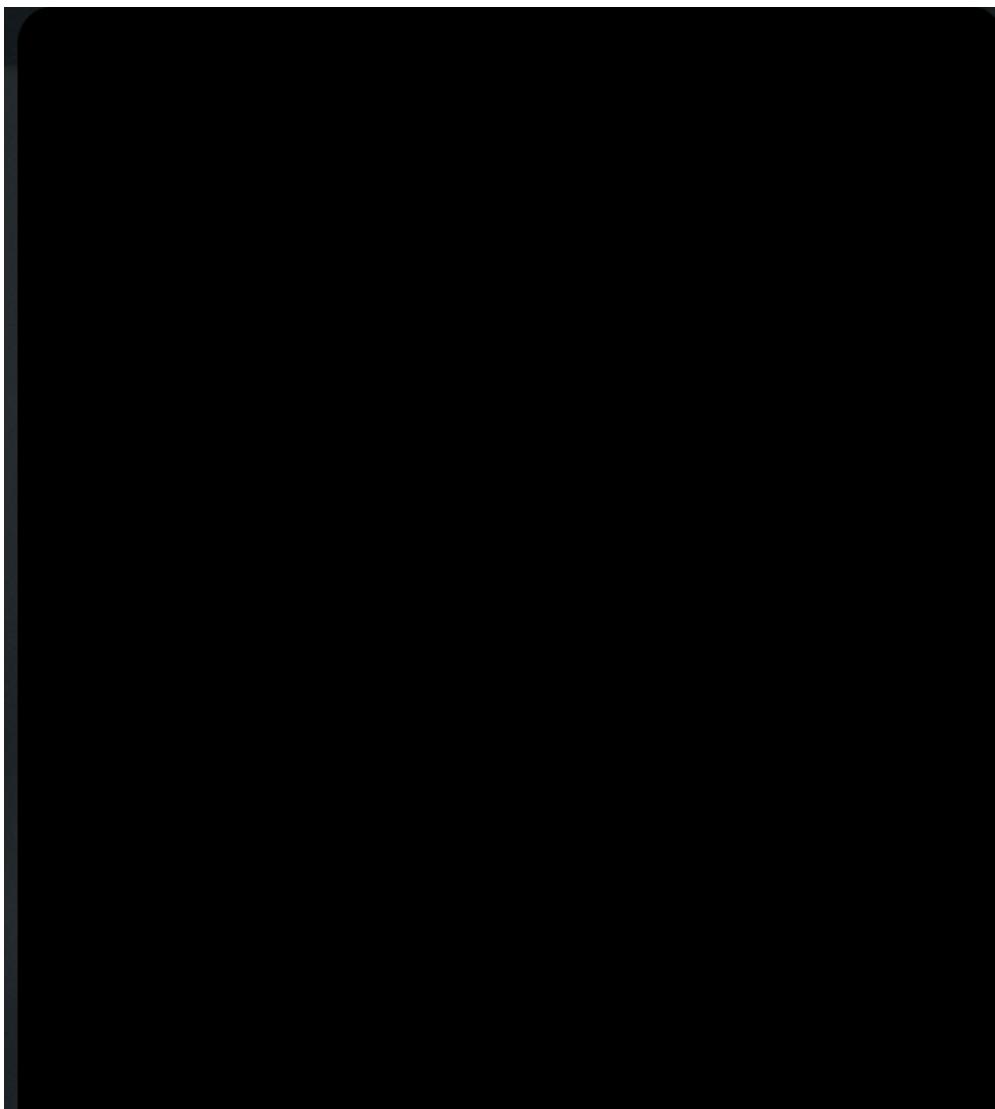
Judy Effendi

JE

Sweet. The website should be all done and updated as well

Is there a place to turn in the extra credit video?

Dean Eggenberger



DE I'm wondering if we need dialogue as in text logs or something

Judy Effendi

Oh yeah idk about that one

JE

Sincee we used iMessages

Dean Eggenberger

2 Overall Description

2.2 Product Functions

2.5 Assumptions and Dependencies

2.6 Apportioning of Requirements: Added a note about how driver
override functions

3 Specific Requirements

3.1 System Requirement

3.3 Cyber Security

4 Modeling Requirements

4.1 Use Case Diagram Requirement

4.3 Sequence Diagrams

CSE 435 - Version 2 - 3 SRS Amendments Log - PCAS1

docs.google.com

DE

Dean Eggenberger

DE

We have this doc to turn in along with the SRS too. I filled
out a bit of it but she'll probably want to see more

[1 Reply](#)

DE

I wish we had until midnight... I get on a flight at 5:30 but I
can bring out my laptop as much as possible

I have a doctors not for the flu that can get an extensions
on papers. Do you think we need it?

Dean Eggenberger

DE

I think I'd be able to do quite a bit on my flight if we had
until at least midnight tonight

DE

We have this doc to turn in along with the SRS too. I filled out a bit of it but she'll probably want to see more

1 Reply



I can work on adding more to this doc

Dean Eggenberger

I looked into creating chat logs from iMessage and you can only export them to pdf through your MacBook

DE

I can't seem to get my messages on my MacBook but if someone gets them I could chop up the doc into smaller logs and cut out anything we shouldn't have her read if anything lol

I can see if I can get it

Dean Eggenberger

It looks like we also need a customer interaction log

I'm sure we could just link to the doc scribing our initial interaction

DE

And any emails we have with him

Okay I can turn the iMessages into a pdf how far back do you want me to go?

Dean Eggenberger

DE

Eh if it's not a lot of work you could send me everything

The furthest I can go back in NOV 15th is that okay?