## Q1 What did you do?

[3 points]

List the tasks you managed to complete in the period between now and your last design review meeting (or up till now if this is your 1st). A good way to do this is to group tasks accomplished into multiple sub-lists, with each sub-list related to each subsystem that is currently being worked on.

* Determined functioning of the design on a diagrammatic level.
* Looked into different use-cases of the design.
* Decided on specifications for design components as a result of the requirements laid out.
* Designed the op amp LED circuits on KiCad.
* Added an optional float/ humidity sensor trigger to the design.
* Chose to have 2 moisture sensors over 1, with each sensor having its own LED indicators and valve control.
* Decided on having 6 LEDs in total.
* Chose a capacitive soil moisture sensor for the sensors.
* Determined what GPIOs the design is connected to on the Pi.
* Decided to power the Pi with its own power supply (I.e. not from our PiHAT circuit)

## Q2 What do you plan to do in the next period?

[3 points]

List the tasks you plan to complete in the period between now and your next design review meeting. A good way to do this is to group tasks into multiple sub-lists, with each sub-list related to each subsystem that is currently being worked on.

* Choose specific components.
* Integrate components into a workable circuit.
* Perform LTSpice simulations.
* Ensure that circuit requirements are met.

## Q3 What might go wrong?

[3 points]

List any potential barriers to the team successfully executing the plan, and outline any steps that could be taken to mitigate against such risks if they exist. As in Q1 & Q2, if helpful break it down by design subsystem.

* Design proves too complex. Requires further research and analysis to determine.
* Chosen components may not be available in our simulation programs requiring more time to be wasted finding new components, this can be mitigated by using common and simple components
* Might run out of time to complete aims, due to possible load shedding delays. Mitigate by keeping up to date with load shedding schedules.

## Q4

[1 point]

Leave blank. Tutor will allocate 1 mark if this was submitted prior to the groups selected review meeting time.  
**(For the 1st review meeting only**, this mark will be awarded to all groups provided review report is submitted before assignment expires on Gradescope)

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