**Action Plan**

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| **Task** | **Steps to Complete Task** | **Any Additional Resources** | **Time Frame** |
| Conduct detailed research (primary and secondary) relating to the properties of the materials needed, to avoid complications later on. | -Refer to books or articles relating to the topic.  -Conduct interviews with experts, such as engineers. | -A computer  -An internet connection  -Access to a library | August 11th – August 21st 2018 |
| Gather materials and test sample code on an external display. | -Visit any stores if necessary.  -Order any items online if necessary.  -Write and test sample code on raspberry pi, using any external display. | -A computer  -An internet connection  -Some means of transport  -A spare display | August 25th – September 2nd 2018 |
| Start work on physical product, meet with supervisor to discuss and evaluate summer progress. | -Measure dimensions of display and mirror.  -Assemble wooden frame, should be large enough to comfortably accommodate for the display and mirror. | -Measuring tape  -Pre-cut wood  -Super glue  -Nails  -Hammer  -Drill | September 5th – October 1st 2018 |
| Mount display to mirror and connect, setup the raspberry pi. | -Connect raspberry pi to display.  -Mount mirror to display using some sort of adhesive. | -Adhesive (Possibly super glue)  -Raspberry pi  -Generic display, must fit mirror  -Two-way mirror | October 3rd – October 25th 2018 |
| Finish off with the user interface and upload it onto the raspberry pi. | -Complete the user interface on primary computer.  -Transfer and run interface on raspberry pi. | -A computer  -An internet connection  -Raspberry pi | October 27th – November 15th 2018 |
| Attach joint unit to frame and manage cables neatly to achieve a more pleasing overall aesthetic. | -Use adhesive to mount the joint unit (raspberry pi + mirror + display) onto the frame, carefully concealing everything except for the actual mirror.  -Brush off rough edges of frame using a sanding technique. | -Adhesive (Possibly super glue)  -Joint unit (raspberry pi + mirror + display)  -Wooden frame  -Sandpaper | November 19th – November 30th 2018 |
| Test mirror and make any finishing touches, if necessary. | -Test the mirror by myself and check for errors or any quirks.  -Get a second opinion.  -Make any adjustments if necessary. | -Finished product  -A computer (for troubleshooting)  -An internet connection (for troubleshooting) | December 1st – December 9th 2018 |