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9/30/2024

SER415 Fall A 2024

Assignment 5: Screenshots of ReqView

PFD/SYS : Primary Flight Display (PFD)

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SYS-17	**3 SUBSYS: Data Layer** ⊟	
SYS-19	**3.1 REQ: The Data Layer shall provide the aircraft's current altitude as a filtered integral value.** ⊟ Based on sensor inputs, the Data Layer will compute and deliver the aircraft's current altitude as an integer. To guarantee steady and accurate readings, the altitude data must be filtered to prevent sharp swings brought on by minute differences in the unprocessed sensor data.	⬆ References: SYS-13 REQ: The PFD shall provide an indication of ... SYS-26 REQ: The User Interface shall display the cur... ⬆ Reference by: SYS-13 REQ: The PFD shall provide an indication of ... SYS-12 REQ: The PFD shall log the aircraft's current ...
SYS-29	**3.1.1 REQ: The Data Layer shall handle altitude within a range of 0 to 50,000 feet.** In order to guarantee that the height supplied is within the operational range of 0 to 50,000 feet, the Data Layer filters and saves altitude data. Any data outside of this range is considered invalid and will cause the system to send out an alert.	⬆ References: SYS-26 REQ: The User Interface shall display the cur...
SYS-30	**3.1.2 REQ: The Data Layer shall apply a Moving Average filter to smooth altitude data before display and logging.** In order to guarantee smooth and constant altitude data that is logged and displayed, small fluctuations and spikes in the raw sensor readings will be removed using a Moving Average filter.	⬆ References: SYS-13 REQ: The PFD shall provide an indication of ... SYS-26 REQ: The User Interface shall display the cur...
SYS-22	**3.2 REQ: The Data Layer shall provide a boolean value indicating whether the aircraft's pitch exceeds a user-configurable threshold.** When the aircraft's pitch exceeds an established limit, the Data Layer will track it and deliver a true or false value. The user can set this level according to operational and safety requirements.	⬆ References: SYS-12 REQ: The PFD shall log the aircraft's current ... SYS-27 REQ: The User Interface shall display a visual... ⬆ Reference by: SYS-27 REQ: The User Interface shall display a visual...

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SYS-20	**4 SUBSYS: User Interface** ⊟	
SYS-24	**4.1 REQ: The User Interface shall show the airspeed data in knots, updated every 100 milliseconds.** The pilot can view real-time airspeed data in knots through the User Interface. This guarantees that the pilot always knows the aircraft's current speed.	⬆ References: SYS-13 REQ: The PFD shall provide an indication of ... SYS-18 REQ: The Network Component shall obtain ...
SYS-26	**4.2 REQ: The User Interface shall display the current heading data with updates every 500 milliseconds.** The heading of the aircraft is displayed on the User Interface, which is updated every 500 milliseconds to provide the pilot constant access to accurate navigation data.	⬆ References: SYS-12 REQ: The PFD shall log the aircraft's current ... ⬆ Reference by: SYS-19 REQ: The Data Layer shall provide the aircra... SYS-29 REQ: The Data Layer shall handle altitude wi... SYS-30 REQ: The Data Layer shall apply a Moving A...
SYS-27	**4.3 REQ: The User Interface shall display a visual warning when airspeed data falls outside the range of 0 to 600 knots.** To notify the pilot of potential system or aircraft problems, the User Interface will display a visual warning on the display if airspeed data exceeds beyond the allowed range, which is between 0 and 600 knots.	⬆ References: SYS-22 REQ: The Data Layer shall provide a boolean... ⬆ Reference by: SYS-22 REQ: The Data Layer shall provide a boolean...
SYS-28	**4.4 REQ: The User Interface shall clearly label all airspeed and heading data with appropriate units (knots for airspeed, degrees for heading).**	⬆ References: SYS-13 REQ: The PFD shall provide an indication of ... SYS-12 REQ: The PFD shall log the aircraft's current ...

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SYS-28 ✏ 🔗	**4.4 REQ: The User Interface shall clearly label all airspeed and heading data with appropriate units (knots for airspeed, degrees for heading).** To ensure that the pilot receives correct and comprehensible information, all displayed data must be appropriately labeled with their respective units to prevent confusion.	⬆ References: SYS-13 REQ: The PFD shall provide an indication of ... SYS-12 REQ: The PFD shall log the aircraft's current ...

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