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CSCI-363

HW #6 CRC Card

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| ATC Ground Station |  |
| Receive data from the transponder and unpack and store it in the aircraft database. Then analyze the information to determine hazardous situations. Along with that, updates the computer graphics display every 10 seconds | Aircraft, Transponder, Aircraft Database, Computer Graphics Display |

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| Aircraft Database |  |
| Store information received from the ATC ground station about each aircraft. | ATC Ground Station |

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| Computer Graphics Display |  |
| Create a graphics display for every aircraft and their perspective information. It updates the display every 10 seconds | Air Traffic Controller, Aircraft Database, Air Traffic Controller |

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| Aircraft |  |
| Communicates aircraft type and flight data in high-density packet format to the ATC ground station. | Transponder |

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| Transponder |  |
| Transmits aircraft type and flight data in high-density packet format to the ATC ground station | Aircraft |

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| Air Traffic Controller |  |
| Collect the aircraft database for specific information about any plane displayed on the screen. | Aircraft Database |

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| Aircraft Status |  |
| Store the current status of each aircraft | Aircraft |

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| Weather |  |
| Analyze and collect the current weather information for the area around the airport and the airport itself. | ATC Ground Station |

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| Communication |  |
| Handle communication between air traffic control and pilot | Aircraft, ATC Ground Station |

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| Emergency Response |  |
| Alert emergency services in case of an emergency or dangerous situation | ATC Ground Station |

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| Flight Data |  |
| Data from flight information is to be stored in the system. | ATC Ground Station, Aircraft Database, Computer Graphics Display |