

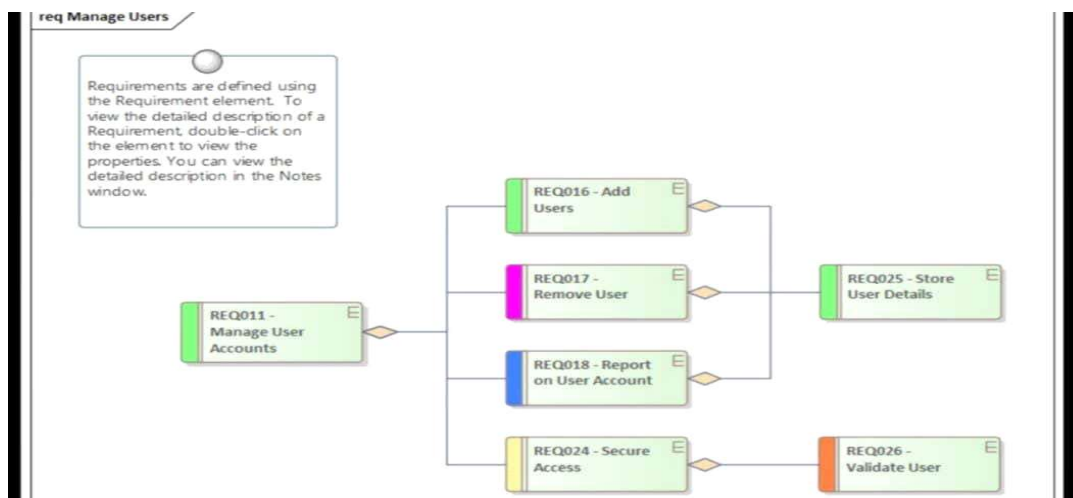
# PROJECT DESIGN PHASE II

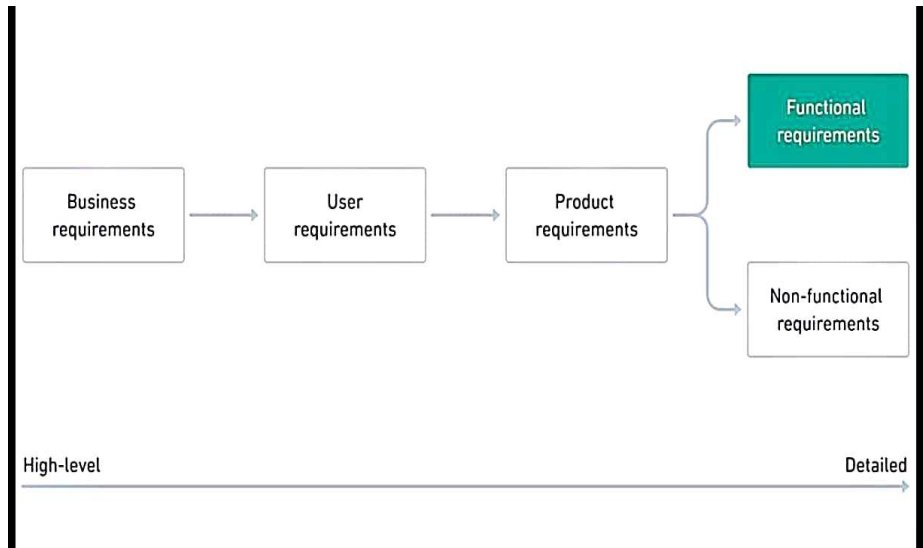
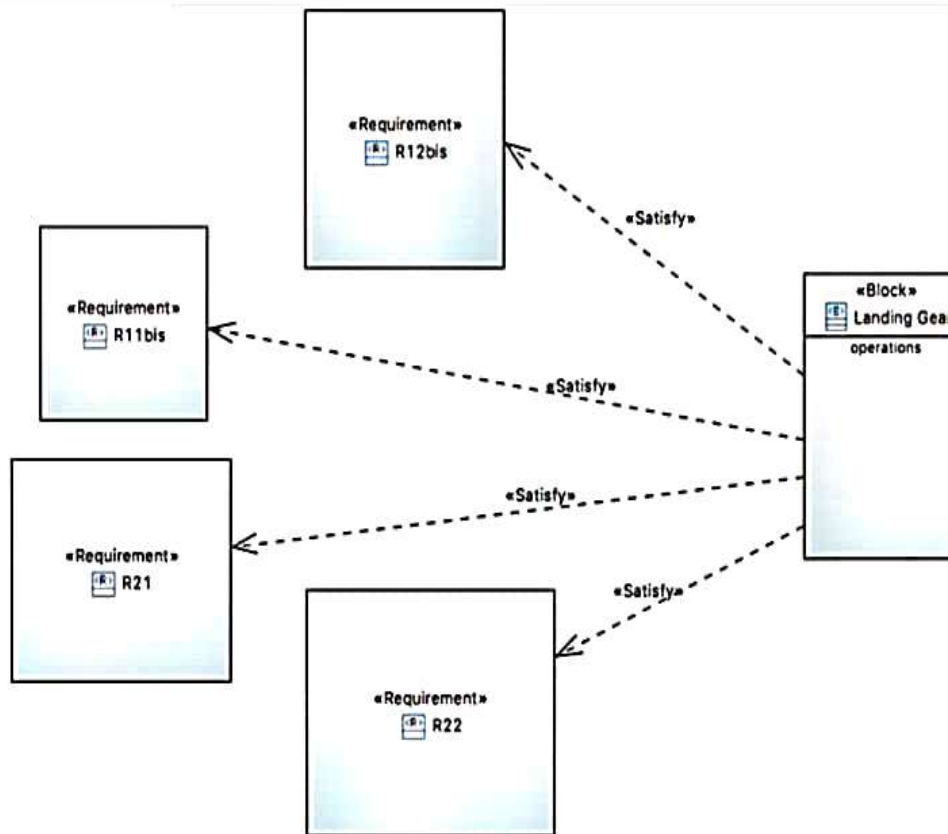
## FUNCTIONAL REQUIREMENTS

DATE	14 OCTOBER 2022
TEAM ID	PNT2022TMID46908
PROJECT NAME	Airlines Data Analytics For Aviation Industry
MARKS	04 Marks

Criterion	Requirements
Quick turn around	Input data readily available (indicators); Default data for non-available specific data;
Easy to use	Limit information input by operator; Menu driven;
Quick scan vs detailed evaluation	Ability to cut short input specific data; Define minimum specific data required for tool to run (remaining data input based on default settings); Company specific defaults;
Environmental focus	Link with company environmental management strategy Link with Australian NPC KPI's and targets and reporting
Environmental comparator	Ability to compare on environmental details (e.g. material consumption, recycling rate,) Ability to link environmental variations to technical and commercial variations (trade-offs);
Modelling features	Waste management scenarios related to distribution context

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FR<sub>1</sub> - Locate workpiece to required accuracy

FR<sub>1.1</sub> - Locate the workpiece

FR<sub>1.1.1</sub> - Provide location directions - 6 FRs

FR<sub>1.1.2</sub> - Provide contact between locator and workpiece - 6 FRs

FR<sub>1.2</sub> - Control accuracy of locations

FR<sub>1.2.1</sub> - Locate workpiece to required drawing tolerances - 6 FRs

FR<sub>2</sub> - Support workpiece against machining forces experienced during machining

FR<sub>2.1</sub> - Hold workpiece in situ during machining - 6 FRs

FR<sub>2.2</sub> - Support workpiece during machining - 12 FRs

FR<sub>3</sub> - Ergonomic requirements

FR<sub>3.1</sub> - Prevent damage at the fixture workpiece interface

FR<sub>3.2</sub> - Channel coolant flow during machining

FR<sub>3.3</sub> - Ease the loading/unloading of the workpiece into/from the fixture

FR<sub>3.4</sub> - Assist tool positioning during machining

FR<sub>3.5</sub> - Error proof the fixture

Constraints:

C<sub>1</sub> - fixture cost

C<sub>2</sub> - fixture weight

C<sub>3</sub> - workpiece loading time

C<sub>4</sub> - workpiece unloading time

C<sub>5</sub> - fixture assembly time