Requirement Traceability Matrix

Req. ID	Description	Categories	Type(s) (FR/NFR)	Source	Status
R-FR-01	The system should be able to display geospatial data through relevant visualisations, such as graphs, charts etc.	Data Visualisation	FR	Product Backlog	Final
R-FR-02	The system should display real time data from reliable sources by default (https://meteostat.net/ for past data) ([Climate Data Online - Map search](https://meteostat.net/) for real time data).	Data Ingestion	FR	Product Backlog	Final
R-FR-03	The system should allow the users to select one or more data layers for visualisation. For example, temperature, wind speed, etc.	Data Visualisation/Interactivity	FR	Product Backlog	Final
R-FR-04	The system should allow users to submit feedback about potential issues/improvements in the system.	UI/ Support	FR	Product Backlog	Final
R-NFR-01	System UI designed should comply with WCAG accessibility standard including visual aid support (text to speech support or color	Interactivity	NFR	Product Backlog	Final

Req. ID	Description	Categories	Type(s) (FR/NFR)	Source	Status
	blind friendly)				
R-NFR-02	The system should render visualisations in a timely manner for standard datasets (manageable records)	UX Performance	NFR	Product Backlog	Final
R-NFR-03	System will give the option to log-in/create accounts for the users with 2FA so they can save and retrieve their progress	Security	NFR	Product Backlog	Final
R-NFR-04	The system should ensure platform compatibility across desktop operating systems and browsers. (e.g. Windows/MacOS and Chrome/Edge)	Performance, UX	NFR	Product Backlog	Final
R-NFR-05	The system should let users export visualisations in different formats (jpg, pdf etc)	UI/Data Visualisation	NFR	Product Backlog	Draft

Old:

Req. ID	Description	Categories	Type(s) (FR/NFR)	Source	Status
R-FR-01	The system should be able to display geospatial data through relevant visualisations, such as graphs, charts etc.	Data Visualisation	FR	Product Backlog	Final

~~R-FR-02~~ (removed)	~~The system should allow the user to manually input their own data or upload data from reliable datasets.~~	~~Interactivity~~	~~FR~~	~~Product Backlog~~	~~Draft~~
R-FR-03 (edited a little)	The system should display real time data from reliable sources by default (https://meteostat.net/ for past data) ([Climate Data Online - Map search](#) for real time data), ~~but should allow users to visualise/download data from different timelines.~~	Data Ingestion	FR	Product Backlog	Final
R-FR-04	The system should allow the users to select one or more data layers for visualisation. For example, temperature, wind speed, etc.	Data Visualisation/Interactivity	FR	Product Backlog	Final
R-FR-05	The system should allow users to submit feedback about potential issues/improvements in the system.	UI/ Support	FR	Product Backlog	Final
~~R-FR-06~~ (edited below - R-NFR-06)	~~System should give the option to log in/create accounts for the users with 2-factor authentication so they can save and retrieve their progress.~~	~~Security~~	~~FR~~	~~Product Backlog~~	~~Removed~~
R-NFR-05	System will give the option to	Security	NFR	Product Backlog	Final

(new - from R-FR-06)	log-in/create accounts for the users with 2FA so they can save and retrieve their progress				
R-NFR-01 (keep as a last priority task)	The system should let users export visualisations in different formats (jpg, pdf etc)	UI/Data Visualisation	NFR	Product Backlog	Draft
R-NFR-02	System UI designed should comply with WCAG accessibility standard including visual aid support (text to speech support or color blind friendly)	Interactivity	NFR	Product Backlog	Final
~~R-NFR-03~~ ~~(edited below - R-NFR-03)~~	~~The system should ensure platform compatibility across desktop.~~	~~Performance, UX~~	~~NFR~~	~~Product Backlog~~	~~Draft~~
R-NFR-03 (edited from old R-NFR-03)	The system should ensure platform compatibility across desktop operating systems and browsers. (e.g. Windows/MacOS and Chrome/Edge)	Performance, UX	NFR	Product Backlog	Draft
~~R-NFR-04~~ ~~(edited below - R-NFR-04)~~	~~The system should render visualisations in under 2 seconds for standard datasets (<1000 records)~~	~~UX, Performance~~	~~UFR~~	~~Product Backlog~~	~~Draft~~
R-NFR-04 (edited from old R-NFR-04)	The system should render visualisations in a timely manner for standard datasets (manageable records)	UX Performance	NFR	Product Backlog	Final

Project Title: Interactive visualisation of spatial data with weather data