

This Section will provide a comprehensive requirements checklist. The requirements have been split into 2 sections: Section. 0.1 (Model Requirements) contains all the requirements related to the "business logic", Section. 0.2 (User Interface Requirements) will describe all the requirements related to the user interface view and control components.

Requirements marked with the Priority **Essential** are requirements explicitly requested in the task brief.

The priority for each requirement is encoded as follows:

- **Essential** - This priority indicates that this requirement must be implemented to satisfy basic functionality of the browser.
- **High** - A high priority indicates that this requirement is important for providing a good quality user experience.
- **Medium** - A medium priority requirement is nice to have but if it is missing it is acceptable.
- **Low** - Low priority indicates that this is unlikely to be fulfilled within the time frame of the project, a stretch goal at best.

0.1 Model Requirements

Requirement	Description	Priority	Status
Send and receive HTTP requests/responses	Send HTTP request messages for URLs typed by the user then receive and store HTML code & response status codes	Essential	Complete
Display HTTP response	Display HTTP statuscode, the title of the web page & the HTML source code	Essential	Complete
Home page	Create and edit home page URL	Essential	Complete
Favourites	Add name and URL to a list of favourite web pages, these need to be editable and can be used for navigation	Essential	Complete
History	A list of visited URLs should be maintained, that can be used to navigate	Essential	Complete
Persistent home page	Store the home page url locally and load it to the browser on startup	Essential	Complete
Persistent favourites and History list	Serialize the lists and load them to the browser on startup	Essential	Complete
Modify history	The user should be able to clear all or specific history items	Medium	Complete
History names	The list of URLs should have reference to the associated page title	Medium	Complete
Sort history/favourites	Sort the list using an appropriate metric	Medium	Complete
Prepend incomplete URL with protocol	Prepend the protocol "http://" & "www." to the URL when missing	Low	Incomplete
File watcher	A file watcher will observe changes in the history and favourites files and trigger reads and writes consequently	Low	Incomplete

0.2 User Interface Requirements

Requirement	Description	Priority	Status
URL input box	Enter a URL to send HTTP requests	Essential	Complete
Display HTML code, status code, title	The Gui should make the status code, HTML and title visible	Essential	Complete
Navigate to and set home page	Able to set a home page and navigate at the click of a button	Essential	Complete
Set custom favourite	A button to set a favourite with a user defined title	Essential	Complete
View favourites list	A selectable menu to display all favourites currently represented in the model favourites list	Essential	Complete
Edit favourites window	A window that enables the user to delete or update favourites	Essential	Complete
View history list	A selectable menu to display all history items currently represented in the models history list	Essential	Complete
Edit history window	A window that provides controls enabling the user to delete or edit history items	Essential	Complete
URL input box	Enter a URL to send HTTP requests	Essential	Complete
Shortcut key-binds	Make use of shortcut keys to improve accessibility	Essential	Complete
Display sorted history menu items	Render the history list in sorted order	Medium	Incomplete
Display sorted favourites menu items	Render the favourites list in sorted order	Medium	Incomplete