

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 HTTP requests	Send HTTP request messages for URLs typed by the user	<b>Essential</b>	Complete
Recieve HTTP responses	recieve and store HTML code & response status codes	<b>Essential</b>	Complete

<b>Requirement</b>	<b>Description</b>	<b>Priority</b>	<b>Status</b>
Display HTTP response	Display HTTP statuscode & the title of the web page	<b>Essential</b>	Complete
Home page	Create and edit home page URL	<b>Essential</b>	Complete
Favourites	Add URL with name to a list of favourite web pages	<b>Essential</b>	Complete
Navigate to Favourite	Selecting a favourite from the list will navigate to the page	<b>Essential</b>	Complete
Modify Favourites	Support editing & removing favourite items	<b>Essential</b>	Complete
History	A list of visited URLs should be maintained	<b>Essential</b>	Complete
Navigate history	Selecting a history item from the list will navigate to the page	<b>Essential</b>	Complete
Persistent home page	Store the home page url locally and load it to the browser on startup	<b>Essential</b>	Complete
Persistent favourites list	Serialize the favourites list and load it to the browser on startup	<b>Essential</b>	Complete
Persistent history list	Serialize the history list and load it to the browser on startup	<b>Essential</b>	Complete
Status code error messages	Support for the corresponding messages for the following status codes: 200, 400, 403, 404	<b>Essential</b>	Complete
Modify history	The user should be able to clear all or specific history items	Medium	Complete

<b>Requirement</b>	<b>Description</b>	<b>Priority</b>	<b>Status</b>
History names	The list of URLs should have reference to the associated page title	Medium	Complete
Sort history	Sort the history chronologically (using the access time)	Medium	Complete
Sort favourites	Sort the favourites by their associated names alphabetically	Medium	Complete
Prepend incomplete URL with protocol	Prepend the protocol "http://" & "www." to the URL when missing	Low	Incomplete

## 0.2 User Interface Requirements

<b>Requirement</b>	<b>Description</b>	<b>Priority</b>	<b>Status</b>
URL input box	Enter a URL to send HTTP requests	<b>Essential</b>	Complete
Display HTML code	Main GUI view component for displaying HTML returned from a HTTP response	<b>Essential</b>	Complete
Display HTTP status code	A GUI element of a users HTTP status codes & their corresponding messages	<b>Essential</b>	Complete
Display web page title	Web page title displayed at top of browser window	<b>Essential</b>	Complete
Navigate to home page button	A button that when pressed navigates to the home page	<b>Essential</b>	Complete

<b>Requirement</b>	<b>Description</b>	<b>Priority</b>	<b>Status</b>
Set home page	A button to set the current page as the home page	<b>Essential</b>	Complete
Set favourites	A button to set the current page as a favourite with the page title as the associated name	<b>Essential</b>	Complete
Set custom favourite	A button to set a favourite with a user defined title	<b>Essential</b>	Complete
View favourites list	A selectable menu to display all favourites currently represented in the model favourites list	<b>Essential</b>	Complete
Edit favourites window	A window that enables the user to delete or update favourites	<b>Essential</b>	Complete
View history list	A selectable menu to display all history items currently represented in the models history list	<b>Essential</b>	Complete
Edit history window	A window that provides controls enabling the user to delete or edit history items	<b>Essential</b>	Complete
URL input box	Enter a URL to send HTTP requests	<b>Essential</b>	Complete
Shortcut key-binds	Make use of shortcut keys to improve accessibility	<b>Essential</b>	Partially Complete
Display sorted history menu items	Render the history list in sorted order	Medium	Incomplete

Requirement	Description	Priority	Status
Display sorted favourites menu items	Render the favourites list in sorted order	Medium	Incomplete