

Technical Specification Document (TSD)

1. ****Project Overview****

The project is focused on addressing an overflow issue that was occurring when the screen width was filled with a string of a certain character length. The overflow was causing the text to run out of the screen, leading to a poor user experience across multiple devices.

2. ****Business Objective****

The main objective is to ensure that the application's user interface remains consistent and user-friendly across different devices. This includes preventing any text overflow issues that may disrupt the user experience or lead to visual cut-offs.

3. ****Functional Requirements****

The functional requirements for this feature include:

- Prevention of text overflow across all screen sizes
- Ensuring that text remains within the defined screen width
- Updating the CSS rules and layout structures to accommodate the changes

4. ****User Journey / UX Flow****

The user journey remains largely unaffected by this change, as it is a background improvement to the user interface. The user will continue their interactions with the application as before, but without encountering any overflow issues on smaller screens.

5. ****Architecture & Data Flow****

This feature does not impact the overall architecture and data flow of the application, as the changes are primarily concerned with the front-end presentation layer. Modifications were made to the CSS and HTML structures to correct the overflow issues.

6. ****Tech Stack****

The tech stack involved in this feature includes HTML, CSS, and JavaScript for frontend development.

7. ****API & Module Design****

There was no requirement for API or module design changes as this feature focused on frontend

UI fixes.

8. **Detailed File Change Summary**

The following files were modified to implement the solution:

- /public/styles/global.css
- /templates/homepage.html
- /templates/productDetail.html
- /templates/cartPage.html
- /ui/components/Footer.jsx
- /tests/responsiveLayout.test.js

9. **Integration Details**

The changes were integrated into the existing codebase without any major conflicts. The updated CSS and HTML files were committed and merged into the main branch.

10. **Deployment Strategy**

The deployment strategy involved pushing the changes to the staging environment for thorough testing across various devices and screen sizes. After successful validation, the changes were deployed to the production environment.

11. **Testing Plan**

The testing plan included unit tests, integration tests, and visual regression tests using Percy snapshots. Post-implementation, QA tested the changes on multiple devices and screen sizes, confirming the absence of overflow issues.

12. **Known Limitations**

This fix is primarily targeted at smaller screens. While verified across all breakpoints from 320px to 1920px, potential issues on larger screen sizes or future devices cannot be fully anticipated.

13. **Future Enhancements**

Future enhancements may include improvements to responsive design principles and further optimization of the application's UI/UX across various screen sizes.

14. **Approval Summary**

The PR was raised by Chetna R on 2025-08-08 and approved by Ronak G, Bhavika T, and Neha B. The PR was merged on the same day.

15. ****Appendix****

#

A. JIRA Details

- ****Ticket ID****: AICOE-1233
- ****Title****: Overflow Issues with the Screen Width
- ****Status****: Done
- ****Created On****: 2025-07-23 06:33
- ****Created By****: Jeevan SJ
- ****Assignee****: Mohammad Roohullah
- ****Reporter****: Jeevan SJ

#

B. Git PR Details

- ****Title****: Fix screen overflow issues on responsive layouts
- ****Raised By****: Chetna R on 2025-08-08
- ****Approved By****: Ronak G, Bhavika T, Neha B
- ****Merged On****: 2025-08-08
- ****PR Link****: [PR Link](https://bitbucket.org/Demo/rg-platform/pull-requests/1334)

#

C. Attachments

| File Name | Uploaded By | Date | Download Link |
|---------------------------|---------------------|------------|--|
| ----- | ----- | ----- | ----- |
| image-20250723-053303.png | Jeevan SJ | 2025-07-23 | [Download](https://valtech.atlassian.net/rest/api/2/attachment/content/609897) |
| image-20250725-045512.png | Bhargavi Lankipalli | 2025-07-25 | [Download](https://valtech.atlassian.net/rest/api/2/attachment/content/611688) |

#

D. Comments

- **2025-07-25 05:55 – Bhargavi Lankipalli**: Tested on QA and it's working fine.

![image-20250725-045512.png](https://valtech.atlassian.net/rest/api/2/attachment/content/611688)