

**BỘ THÔNG TIN VÀ TRUYỀN THÔNG**  
**HỌC VIỆN CÔNG NGHỆ BƯU CHÍNH VIỄN THÔNG**



**Ninth Report**  
**Foundation Internship**  
*ChippyCash*  
*Smart Chatbot for Easier Expense Management*

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# INTERNSHIP BASE REPORT – WEEK 9

## 1. Overview

This week's primary objective was to **fix fundamental bugs and enhance the user experience** in the ChippyCash system. Tasks were focused on interface optimization, functional bug fixing, and user experience improvements to ensure greater stability and usability.

## 2. Completed Tasks

### 2.1. Fixed Dark Mode Issue for AI Chat

- **Issue:** The chat interface did not sync with dark mode; colors were hard-coded.
- **Solution:**
  - Replaced all hard-coded color values with CSS variables.
  - Updated `background:white` to `background:var(--card-background)`.
  - Changed `color:#2d3748` to `color:var(--primary-color)`.
  - Fixed `border:1px solid #e2e8f0` to `border:1px solid var(--border-color)`.

### 2.2. Fixed Edit Transaction Button Bug





- **Issue:** Edit transaction button was not working in AI Chat.
- **Cause:** Conflicting class names, missing event listeners, CSS overrides.
- **Solution:**

- Changed selector from `.magical-tab-button` to `.tab-button`.
- Added event listeners for dynamically generated buttons.
- Improved CSS with `pointer-events:auto, z-index:10`.
- Appended `<script src="js/main.js"></script>` at the end of the HTML file.

### 2.3. Improved AI Chat Interface

- **Phase 1:** Designed a compact layout with card and header.
- **Phase 2:** Added gradient backgrounds, shine effects, and smooth animations.
- **Phase 3:** Simplified the interface according to user feedback.

### 3. Results

-  **Dark mode** works seamlessly across the chat interface.
-  **Edit transaction button** responds accurately and promptly.
-  **Chat interface** is now more minimalistic and user-friendly.
-  All JavaScript console errors have been resolved.

### 4. Metrics & Impact

- **Bug fixes:** 2 critical bugs have been completely resolved.
- **Code quality:** 100% CSS variable implementation for theming.
- **User experience:** Seamless dark/light mode switching, improved usability.

## **5. Plan for Next Week**

- Optimize the edit transaction modal.
- Add category support for transactions.
- Further enhance transaction display.

## **6. Challenges and Solutions**

- While fixing dark mode, several CSS conflicts appeared due to legacy hard-coded colors.
- Solution: Thoroughly reviewed all UI components and standardized color usage via CSS variables.
- Some dynamic buttons did not receive event triggers because they were rendered after the DOM loaded.
- Solution: Used event delegation to reliably handle events for dynamic elements.