

Master Test Plan: Bible Verse Vista Chrome Extension

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1. INTRODUCTION

1.1. Project Overview

This document outlines the testing strategy and approach for the development of a Google Chrome extension that creates highly customizable new tabs to display Bible verses. While a number of extensions exist that display verses on new tabs, many are extremely bland and static, lacking any customization options. This extension will create a more effective, convenient, and personalized way to deliver the Word to any user.

1.2. Goals/Objectives

- Validate the functionality and customization options of the Bible verses and the New Tab for the extension
- Ensure extension compatibility within the Chrome browser framework
- Ensure that the extension and its customization is satisfying and easy-to-use, receiving feedback from a variety of users
- Measure and minimize load for best performance – stability even with a large number of new tabs

1.3. Constraints

- There is a limited time to work before milestones and due dates, including the final submission.
- This is a one-man project – I am the only developer and test manager.
- I have multiple ongoing courses with weekly projects of their own, requiring split attention with this project.
- Due to critical issues regarding my usual workspace, I am working within a limited environment on another laptop. This will negatively affect the development and testing time. This is also subject to change, for better and for worse.

2. REFERENCES

2.1. Project Proposal

- [GitHub – Project Proposal](#)

2.2. Project Requirements

- [GitHub – Project Requirements](#)

3. TESTING STRATEGY

3.1. Test Items

- Bible Verse Vista v1.0.0.0
- Google Chrome v122.0.6261.95 (latest version)
- User questionnaire (UAT)

3.2. Test Features

- [Requirements Document](#)
 - (The number next to each feature relates to the corresponding ID Number in the Requirements Document.)
- Settings
 - Basic menu stores all settings featured below
 - User-intuitive ways to change settings (12)
 - Default settings for all – not a blank slate, but a serviceable basis (14)
 - Ability to reset to default settings (29)
 - Preset default options (14)
 - User custom choice for options
 - Save and store present user settings – reloadable (30)
- Settings Sidebar (31)
 - Color
 - Opacity
 - Header display options
 - Size
 - Font
 - Color
 - Text display options
 - Size
 - Font
 - Color
- Theme Selection
 - Basic light and dark modes (9, 18)
 - Default to light mode
- Background (3)
 - Background image
 - Default image(s) (15)
 - Background color
- Bible verse window (1)
 - Window background
 - Background image
 - Background color

- Window border
 - Color
 - Size/thickness
 - Opacity
- Window opacity
- Window color
- Window width
- Window positioning (4)
 - Default is center-screen
 - Presets for quadrants along center vertical line (4)
- Text display options
 - Size
 - Font
 - Color
 - Alignment
- Bible Gateway connection (22)
 - Verse via user choice (8)
 - Verse of the Day (default) (6)
 - Bible version options (5)
 - Bible language options (19)
- Natural ease-of-use (12)
 - Designed with clarity and intuitive settings for the sake of users inexperienced with my extension, with using extensions, or with using technology in general. (12)
 - (For any messages, ensure that the tone is representative of Christ)
 - (Make sure that users are not pressured by all the options – make it clear that there are easy presets and wider choice beyond that is up to them)
- Errors
 - Avoid errors, obviously (16, 22)
 - Display errors to users – informative, but not too informative

3.3. Test Approach

- My overall approach to testing will be primarily manual testing. The presets, user settings, and the Bible Gateway sync will be easy to test. The many other customization features will be testing extremes, many of which will often be implemented on purpose and allowed for the sake of user customization. (Regardless of aesthetic appeal or “normal” sensibility – user choice is the priority.)
 - As the sole developer, all the extensive testing performed by myself will be white box testing.

- As for anyone else tested, they will perform black box testing. This would approximate how users would receive it from the Chrome Web Store, testing whether the tutorial and all the concepts it introduces are effectively communicated and understood soon after.
 - (Further gray testing may be performed with these testers, but that is tbd.)
- (As of now, there is no intention to perform automated testing, but that may be subject to change.)
- The types of tests that will be performed are unit tests, integration tests, system tests, and user acceptance tests (UATs).

3.3.1. System Test

- This testing ensures that Bible Gateway is synced properly and that each customization setting within a new tab is properly implemented – default, other presets, and user-chosen – in an individual sense and all together.
- It also verifies if the settings are maintained across many new tabs and tests whether settings save or not upon webpage refresh, extension on/off, browser on/off, post-shutdown, etc.
- Is it displaying *each* and *all* of the features as expected?
 - [Yes or no? -> Pass or fail]
 - (refer to Test Plan Section 3.2 just above)
 - (refer to [Project Requirements](#))

3.3.2. User Acceptance Test (UAT)

- This testing verifies whether the primary purpose of the extension has been met or not – user satisfaction.
- Testing would be with a variety of users with different systems and different technical experience; therefore, it will be simultaneous testing with performance/load, compatibility, and usability as well.
- Testers would be given a test script, telling them the premise of having downloaded a Google Chrome extension that says it has Bible verses appear on new tabs, but that it's also very customizable.
 - (In part, they would be introduced with the premise that would theoretically exist on the Web Store description.)
- I would request that they comment on their thoughts and experiences throughout the test, which I would record for further insight as I watched what they did and how.
- If they are having trouble, note that, and give them slight pushes towards important features.

-
- Testers would be asked for their thoughts about various elements of the extension after given ample time.
- This would outline all the basic test features intended for this extension.
 - Includes in and out-of-menu settings (17, 20), the menus themselves, the appeal of various preset options (14, 15), the light and dark modes (9, 18), the background image (3), the Bible verse window and settings regarding it (1, 4, 22, 7, 8, 6, 5, 19, 10), and so on.
 - (Additional test features would also be added accordingly.)
- It would also assess generalities regarding performance, usability, and overall aesthetics.
- The questionnaire would request a number on a satisfaction scale from 1 to 5, with 5 as most pleasing, for each of these.
 - (The goal is to have a 4 on average.)
 - There would also be a blank on the side to put ones specific qualitative reasoning.
- Their final overall experience will be graded on the same scale.
- There will be a section at the end for specific recommendations and changes to take into consideration.

○ **User Testing Script:**

Welcome and thank you for participating in the user testing for my Bible Verse Vista Chrome Extension! This session aims to gather insights on the accessibility, usability, and satisfaction with the extension. Your feedback is invaluable to me in ensuring a great user experience and fulfilling the ultimate purpose of this project.

To clarify the purpose of this extension, it allows for Bible verses to display on the New Tab in the Google Chrome browser, and it focuses on a variety on customization features.

Because this is program is focused on user choice, I would like for you to test different features and customize something you might like and use for yourself if you had the extension.

As you go through the program, I would like for you to think out loud and voice your thoughts and feelings about the program. I will also be asking you questions throughout. I urge you to be honest, because this is a test of the program and not of you.

Now, let's begin!

...

[questions regarding the test cases, likely towards unfound/untouched features

[ones they would like to find first, then ones they didn't say they wanted when speaking aloud]

[dynamic and dependent on the individual experience of each tester]

...

Alright! You did great!

Now, if you would, could you take this questionnaire? If you have any particular points of note or recommendations for change, please just let me know!

[tester takes questionnaire based on test cases and grading scales previously mentioned]

And that's it! Thank you for your time and valuable feedback!

4. TEST DELIVERABLES

4.1. Test Cases

| Case | Feature | Action | Expected Result(s) | Actual Results(s) | Pass/Fail (Yes/No) |
|------|----------------------------------|---|---|---|--------------------|
| 1 | Open settings menu | User clicks the menu button | Opens the settings menu | Settings menu (sidebar) opens | Yes |
| 2 | Default light/dark mode (9, 18) | Light mode on first use, click theme selection to change | Defaults to light mode; changes according to user choice | Light mode appears on first use, theme selection appears with light/dark modes and user mode – all work accordingly | Yes |
| 3 | User custom color schemes | User clicks save button to save their settings, click load button to use those settings | Appearance changes according to user-chosen color scheme | Appearance saved, user settings stored, appearance loads back successfully | Yes |
| 4 | Default background image (3, 15) | On first use... (automatic) | Background image initialized as one of the default presets | Background image is initialized on first use as default | Yes |
| 5 | Bible verse window | On first use... (automatic) | Bible verse displayed in its Bible verse window | Bible verse displayed in its Bible verse window | Yes |
| 6 | Bible verse window opacity | User clicks or pulls verse window opacity slider | Bible verse window opacity changes according to setting scale | Bible verse window opacity changes according to setting scale | Yes |
| 7 | Bible verse window coloration | User clicks verse window color selector | Bible verse window coloration changes according to chosen color | Bible verse window coloration changes according to chosen color | Yes |

| | | | | | |
|----|---|---|--|---|-----|
| 8 | Bible verse window sizing (width) | User clicks or pulls verse window width slider | Bible verse window changes according to chosen size (width) | Bible verse window changes according to chosen size (width) | Yes |
| 9 | Bible verse window position (presets) (4) | User clicks verse window position selector | Bible verse window changes to preset positions accordingly | Bible verse window changes to preset positions accordingly (along the center of the page) | Yes |
| 10 | Text size options | User clicks or pulls verse text size slider | Verse text size changes according to chosen size | Verse text size changes according to chosen size scale | Yes |
| 11 | Text font options (preset) | User clicks verse font selector | Verse text font changes according to chosen preset | Verse font changes according to chosen preset | Yes |
| 12 | Text coloration | User clicks verse text color selector | Verse text color changes according to chosen color | Verse text color changes according to chosen color | Yes |
| 13 | Bible Gateway sync (22) | On every use... (automatic) | Bible Gateway verse appears the same as it does on the official website | Bible Gateway verse appears the same as it does on the official website (*except in cases where the verse doesn't exist for the version/language) | Yes |
| 14 | Daily Bible verses (default, 6) | On every use (if Automatic for Verse of the Day is selected)... (automatic) | Bible Gateway's daily verse appears the same as it does on the official website | Bible Gateway daily verse appears the same as it does on the official website (*except in cases where the verse doesn't exist for the version/language) | Yes |
| 15 | User selected Bible verses (8) | User selects User Choice for Verse of the Day and types a valid Bible book, chapter, and verse(s) | Bible Gateway's user selected verse appears (assuming validity) as it does on the official website | Bible Gateway's user selected verse appears (being valid) as it does on the official website | Yes |

4.2. Test Results

- [Test Results](#) at Section 7

5. TEST ENVIRONMENT

- Developer Device
 - Hardware: Dell Latitude 3520, Windows 10 Pro
 - Software: Google Chrome v122.0.6261.95 (latest)
 - Network: multiple stable networks, vary often

6. TESTING SCHEDULE

- Dry Testing, Week 10
 - (single user, revise test procedure)
- Full Testing, Week 10-11
- Test Analysis and Revisions, Week 11-12

7. ASSUMPTIONS AND DEPENDENCIES

7.1. Assumptions

- The developer was able to implement all intended features.
- The testing environments accurately represent the variety of devices and configurations by users.
- Users have a basic knowledge of operating a browser and browser extensions.
- Users have v122.0.6261.95 or higher installation on Google Chrome for testing.
- Users have a stable and reliable Internet connection during test phase.

7.2. Dependencies

- Availability of the extension in the testing environment – OS versions, Google Chrome, Google Chrome versions, etc.
- The sole developer using a capable device with all necessary features for development and testing.
- The developer fixes any identified issues and changes features according to user feedback during test phase.

8. APPROVALS

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| Name: Bryce Furrow |
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| Role: Lead Developer, Lead Tester |
| Date: 9/30/2023 |
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