**UG2- TEAM 2**

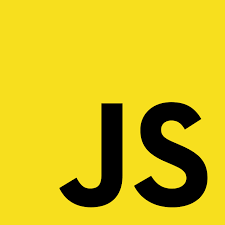
**1)  Introduction**:

The complexity of modern web interfaces, coupled with small text, confusing navigation, and lack of accessibility features, can lead to frustration, isolation, and a reluctance to use digital services.

To address this gap, we developed ” GoldenAger”, a specially designed extension aimed at making the internet more accessible and user-friendly for elderly users. The goal of “ GoldenAger “ is to provide a simple, intuitive browsing experience, while still allowing users to enjoy the full functionality of modern websites, ensuring that seniors can easily access information, communicate with loved ones, and engage with online services in safe and secure environment

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**2) Tech Stack and Tools:**











**CLIENT SIDE** :

"dependencies": {

* "react": "^18.3.1",
* "react-dom": "^18.3.1",
* "tesseract.js": "^5.1.1"

}

"devDependencies": {

* "@babel/core": "^7.25.7",
* "@babel/preset-env": "^7.25.7",
* "@babel/preset-react": "^7.25.7",
* "babel-loader": "^9.2.1",
* "css-loader": "^7.1.2",
* "html-loader": "^5.1.0",
* "html-webpack-plugin": "^5.6.0",
* "style-loader": "^4.0.0",
* "webpack": "^5.95.0",
* "webpack-cli": "^5.1.4"

}

**Server-side**:

**"dependencies"**: {

* "bcryptjs": "^2.4.3",
* "cors": "^2.8.5",
* "express": "^4.21.1",
* "mongodb": "^6.10.0"

 }

3) Features:“GoldenAger “ offers a wide range of features to make user friendly experience use browser:Release 1:1. Detox Search is a specialized to provide a safer and more positive online experience for senior citizens by filtering out negative or harmful content. Detox Search employs algorithms to identify and exclude negative content. It blurs any such toxic or harmful content.2. Screen readers can be particularly beneficial for senior citizens, especially those who may experience vision loss or difficulties reading small text. It makes easier for seniors to navigate as it read aloud the content present on screen.3. The Accessibility Widgets feature provides senior citizens with tools to enhance their online experience by adjusting text size, modifying contrast, change background color. This allows users to customize their viewing experience to suit their individual needs and preferences, making digital content more accessible and easier to read. 4. The Screen Recorder feature allows senior citizens to easily capture their screen activity with a single action to start and stop recording. This functionality simplifies the process of creating video tutorials, sharing gameplay, or documenting online activities, making it accessible for users who may not be familiar with complex software. 5. The voice command feature enables senior citizens, to open new tab, scrolling , opening websites. This functionality simplifies the browsing experience, making it easier for users who may have difficulty with traditional navigation methods 6. The bookmark feature allows users to include a timestamp, making it easy to jump to particular moments.Changes made post Release 1:• Change in UI for accessibility widgets Screen• Button for detox search when user wants to disable • Implementation of login and making in inter portable• ⁠Better voice recognition commands for the implemented accessibilities ( zoom in commands and screen reader ) • ⁠Enabling screen reader where the users want instead of reading all the text on screen highlights the text while it reads• \*Implemented ads blur to blur unnecessary ads.• \*Added Font settings to modify the ads.\*In Release 2 we added the following features: • Blurads - Added blur effect for ads.• download -download any online file and allocate and rename it.• font - Updated font-related configurations.• Reallocate,rename - option to change location of any file present in system and rename it.• scan -safety scan is done by this for the current website.• videoTutorials- video tutorials for helping in voice navigations.• voice -voice commands are given for accessiblity .• Login-Implemented login for our extension.4) Design Decisions: 1) We displayed first only essential buttons in curved format which has option to display all other buttons, so If user want to select any other feature he can click on show all feature.2) Video tutorial is displayed in line and a search bar is added so user can search for required video.3) Colour are chosen in a way so they are comfortable for senior citizen.4)Simple and Large buttons with images to help easy to read and interact5)Added Feedbackmechanism for voicenavigations to help users .5)Changes during Development • Original Idea: To have face login • Changed Idea: we had simple login . • Reason: Not got any working API in extension for face login. • Original Idea: To directly move file present in system. • Changed Idea: We only copy the the file to other location. • Reason: Chrome API have limited access to system files for system security. • Original Idea:Not having Toggle Options for adsblur and detoxSearch so that they are always inaction. • Changed Idea:we added Toggle options for detox and Adsblur.• Reason: Some user might prefer normalSearching so for flexibility of users we added Toggling features. • Original Idea:Using Database only for storing Videos of videotuorials. • Changed Idea:Made login feature via database. • Reason: As suggested by the mentors ,to have a strong backend setup .Voice Navigation.• Original Idea : Make the voice navigation to navigate to book marks and history.• Changed idea : By voice navigation we can give useful commands , like scrolloing the page etc and also calling the all features .• Reason : As senior citizens don’t use much bookmarks and history , we kept these features to voice navigation , and easily opens other features.Google Translate . • Original idea : keep a special button , which translates the whole page to language they like.• Changed idea : Button is not kept in our extension , as there is inbuilt google feature . • Reason: it is inbuilt , just user need to right click on web page and on the context menu , need to go to translate button .

8) Individual Contribution:

* 1. Amar Gupta (CS23B004) :
* Screen Recording
* Download file
* Reallocate file
* Contributed in Documenting .

2)Satish(CS23B038)

* + - Made Login for extension with integration of database.
    - Setup of MongoDb and its integration with Frontend.
    - Implemented VideoTutorials Module with both Frontend and its integration with backend.
    - Helped in implementing the modules ads blur and and fixed SecurityScans
    - Modified Detoxsearch to add togglefeature and Added controlbuttons for ScreenReader.
    - Implemented FontSettings to adjust the font settings .
    - Added logout option and Organised Modules ,Fixed bugs in the code.
    - Designed Class diagram and helped in documenting requirments,report and other documents.

Tejas-

* Curved Bar for Buttons ,Voice navigations and Final changes in UI

Saranya-

* security scans and helped in documenting readme and testcases.

Ganesh –

* Implemented Ads blur and made made main UI and and helped in documenting
* Binnu- design UI through figma ,coded intial Ui for extension,Made tutorial videos and uploaded them and modified bookmarks in youtube.