**UG2- TEAM 2**

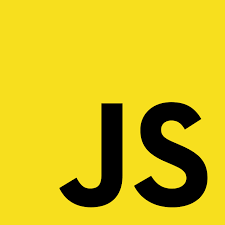
**1)  Introduction**:

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.

7) Modules implemented:

* **ScreenReader** -read content on screen. It makes easier for seniors to navigate as it read aloud the content present on screen.
* **ScreenRecorder** -records user screen. It  capture their screen activity with a single action to start and stop recording.
* **detoxSearch** -hides negative news by blurring.. Detox Search employs algorithms to identify and exclude negative content. It blurs any such toxic or harmful content.
* **Change Background** – Changes bg colour suitable for user.
* **AccesibilityWidgets**-zoom-in,zoom-out,increase and decrease contrast. users can customize their viewing experience to suit their individual needs and preferences, making digital content more accessible and easier to read.
* **Bookmarks**-User can add timestamps for videos in YouTube.
* **Blurads** - Added blur effect for ads. It searches for harmful ads present and blur it.
* **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 and shows how safe and secure the site is.
* **videoTutorials-** video tutorials for helping in voice navigations.
* **voice** -voice commands are given for accessibility . User can also change language and give commands to open new tab, YouTube etc.
* **Login**-Implemented login for our extension. First time user need to register then he can login with the credential.

6) Run and install

* Clone the repository: git clone https://github.com/satish-pati/UG2\_Team2\_SEWebdev.git
* Open Chrome and go to chrome://extensions/
* Enable "Developer mode" toggle (top right)
* Click "Load unpacked"
* Select the extension folder in the file dialog
* The extension should now appear and be ready for use, first time it will ask for login, so click on register if you are first user and login if you have already registered