Here is some sample code you can use in order to get started building your extension.

# Step 1: Create Your Project Folder

Create a new folder on your computer named biz-reminder-extension. Inside that folder, you will create **four** files.

# Step 2: Create the Manifest (manifest.json)

The manifest tells the browser what permissions the extension needs.
Create a file named manifest.json and paste this:

```
{
 "manifest_version": 3,
 "name": "BizReminder: Tax & Law Alerts",
 "version": "1.0",
 "description": "Never miss a tax deadline or new regulation again.",
 "permissions": ["notifications", "alarms"],
 "action": {
  "default_popup": "popup.html"
 },
 "background": {
  "service_worker": "background.js"
 }
}
```

# Step 3: Create the Interface (popup.html)

This is the window that appears when you click the extension icon.
Create a file named popup.html and paste this:

```html
<!DOCTYPE html>
<html>
<head>
 <style>
   body { width: 300px; font-family: sans-serif; padding: 15px; background: #f4f7f6; }
   h2 { color: #2c3e50; font-size: 18px; margin-top: 0; }
   .date-card { background: white; padding: 10px; border-radius: 8px; margin-bottom: 10px; border-left: 5px solid #e74c3c; box-shadow: 0 2px 4px rgba(0,0,0,0.1); }
   .date-card hb { display: block; font-weight: bold; }
   .btn { background: #3498db; color: white; border: none; padding: 10px; width: 100%; border-radius: 5px; cursor: pointer; }
   .btn:hover { background: #2980b9; }
   .links { margin-top: 15px; font-size: 12px; }
   a { color: #3498db; text-decoration: none; }
 </style>
</head>
<body>
 <h2>Upcoming Deadlines</h2>

 <div class="date-card">
  <hb>April 15, 2024</hb>
  <span>Individual Tax Filing Deadline</span>
 </div>

 <div class="date-card" style="border-left-color: #f1c40f;">
  <hb>June 17, 2024</hb>
  <span>Q2 Estimated Tax Payment</span>
 </div>

 <button id="notifyBtn" class="btn">Send Test Notification</button>

 <div class="links">
  <strong>Resources:</strong><br>
  <a href="https://www.irs.gov" target="_blank">→ Visit IRS Official Site</a><br>
  <a href="https://www.sba.gov" target="_blank">→ Small Business Administration</a>
 </div>

 <script src="popup.js"></script>
</body>
</html>
```

## Step 4: Create the Logic (popup.js)

This makes the "Test Notification" button work.
Create a file named popup.js and paste this:

```
document.getElementById('notifyBtn').addEventListener('click', () => {
  // Send a message to the background script to trigger a notification
  chrome.runtime.sendMessage({ action: "notify" });
  alert("Notification triggered! Look at your system alerts.");
});
```

## Step 5: Create the Background Service (background.js)

This runs in the background and handles the actual notification logic.
Create a file named background.js and paste this:

```
// Listen for messages from the popup
chrome.runtime.onMessage.addListener((request, sender, sendResponse) => {
  if (request.action === "notify") {
    showNotification();
  }
});

function showNotification() {
  chrome.notifications.create({
    type: 'basic',
    iconUrl: 'icon.png', // We will use a placeholder or you can add a real PNG
    title: 'Urgent Tax Reminder!',
    message: 'The Q2 Estimated Tax deadline is approaching. Click to view forms.',
    priority: 2
  });
}

// When the user clicks the notification, open the IRS website
chrome.notifications.onClicked.addListener(() => {
  chrome.tabs.create({ url: "https://www.irs.gov/payments" });
});
```

## Step 6: Add an Icon

To make the extension load, you need a picture named icon.png in the folder.

1. **Quick Fix:** Download any small icon from the web or save a 128x128 pixel square image as icon.png in your project folder.
2. (If you don't have one, the extension might show a generic "G" icon, but it's better to have one.)

# Step 7: How to Run it on Your Computer

1. Open **Google Chrome**.
2. In the address bar, type chrome://extensions/ and press Enter.
3. In the top right corner, switch on **Developer mode**.
4. Click the button that says **Load unpacked**.
5. Select the **biz-reminder-extension** folder you created.
6. The extension is now installed! Click the **Puzzle Piece icon** in your browser toolbar to find "BizReminder" and pin it.

# Challenges to Expand the Project:

- **Level 1:** Change the colors in popup.html to match your own brand.
- **Level 2:** Use chrome.alarms in background.js to make the notification pop up automatically after 60 seconds.
- **Level 3 (Advanced):** Use a fetch() call in popup.js to pull real-time news from a business news API.
- **Level 4 (AI Studio):** Use Gemini in AI Studio to write a list of the 10 most important UK or US tax dates and update the HTML code.