URL Shortener

1. Functional Requirements
   1. **ID: User Prejudice**Desc: Will not allow visitors to use the URL shortener unless they have an account. This protects the site from anonymous users creating an extensive amount of shortened URLs
   2. **ID: Login / SIgn Up**Desc: Upon visiting the application, the app will prompt the user to either login to an existing account or create a new account if they don’t already have one. Then their information will be stored along.
   3. **ID: Secondary Background Check**Desc: Everytime the user will try to generate a new shortened URL, the website will check the user’s account token and check its database to verify a second time that this user is they claim to be
   4. **ID: URL Prejudice**Desc: The component will prohibit the submission of an entered URL if it already exists in its own database.   
      1. If and only if it exists within the system of the applications’s database and within the database of the current user then check, then prompt the user the ability to replace the existing shortened URL with the one entered OR forego seeking a new shortened URL that corresponds to the existing URL
   5. **ID:URL Conversion**Desc: URL Shortener will generate a URL of the original domain name with a unique ID appended as an endpoint. This endpoint will refer to the Original URL that it was created alongside of.
   6. **ID:URL Storage Schema**  
      Desc: The new URL will then be stored in the database of its respective user along with its**:**  
      1. Original URL.
      2. A unique ID
      3. Whom that new URL should belong to
      4. The shortened URL   
         - Shortened URL format ex:(shorturl.TLD/uniqueID)
   7. **ID: Limit Generated URLs per User**Desc: Provide a cap for the number of URLs any given user is allowed to have as active URLs within their account.  
      1. If a user attempts to generate a short URL and they are capped out, prompt the user to deactivate one of their existing entries or pay a fee that grants them the ability to generate more shortened URLs. Otherwise, prohibit them from generating another URL.
2. Components
   1. URL Container
      1. URL Input
         1. Clear Text Field Button
      2. Shortened Version Display
         1. Copy-to-Clipboard Button
   2. Navigation
      1. Profile Button
      2. Hamburger Icon
         1. Dropdown Menu

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* 1. Login/Signup Page  
     1. \***(Upon Visiting this page as an Authenticated User)** Database Table of Live short URLs
  + Table Item
    - Date Created
    - Original URL
    - Shortened URL
    - Delete Button to delete