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**4. Product Requirements**

* 1. **Functional**

1. Terminology
   1. *Custom entity:* a user-created or pre-built ‘class’ in which ideas, concepts, and user creations are stored and organized.
   2. *Entity instance:* a custom entity with its fields populated with unique characteristic and identifiers
   3. *Entity schema:* the layout of *fields* in a *custom entity.*
   4. *Entity name*: the collection name for all instance of this entity.
   5. *Entity color*: the color that instances of this entity will appear as on the *timeline*. The color will default to a random, bright color for users that do not wish to maintain a *timeline*.
   6. *Instance Name:* the keyword that this instance is referred to by the timeline.
   7. *Field:* Text-Field, Text-Box, Check-Box, Entity-List and/or Image
   8. *Node:* GUI objects that represent events and branching paths on the timeline
   9. *Link:* points on the left and right of *nodes* that represent ‘previous’ and ‘following’ events, visual *tethers* attach to these links.
   10. *Tether:* visual lines that connects nodes in a chronological sequence.
   11. *Instance link:* colored segments of text in *nodes* and *entity instances* that reference an *entity instance* and provide a link to view that instance.
   12. *World:* The complete collection of *custom entities*, *entity instances*, and *timeline*, essentially a save file.
2. Custom Entities
   1. Ideas are stored in instances of user-created classes and pre-built classes called *custom entities*
   2. Examples of pre-built *custom entities* include: Character, City and Event. These are entities that users are likely to use and demonstrate to users how to properly construct their own *custom entities*. Pre-built entities are an optional extra when creating a new *world*.
   3. *Custom Entity* Creator GUI
      1. Allows user to drag and drop *fields* onto an *entity schema*
      2. *Custom entities* can be saved, edited, deleted, and duplicated
      3. When creating a new *custom entity*, the user is required to define two variables: *entity name* and *entity color.* When creating an *entity instance* only the *instance name* must be defined.
      4. Users will be prompted by a warning when attempting to delete an entity that has one or more *entity instances*
   4. How *entity instances* are referenced on the timelineand in *entity instances*
      1. When it is determined that the user has typed an *instance name* into a *node* or an *instance field* the *instance name* will be colored the *entity color*, creating an *instance link*
      2. When the user clicks on an *instance link* the referenced instance is shown.
3. Timeline
   1. An endless grid on which *nodes* and *tethers* can be placed to construct a complete story.
   2. User can export timeline as an image file (possibly a premium feature).
4. Hierarchical Directory
   1. A visual way to view custom entities and entity instances without use of the timeline. Visually similar to windows file explorer.
5. User Accounts
   1. Creating user accounts
      1. User will be asked to provide the following information when creating their account:
         1. First name
         2. Last name
         3. Username
         4. Email address
         5. Birthday (For analytics)
         6. Country (For analytics)
         7. Password
            1. Encrypted password will be stored in database
6. Creating a new *world*
   1. Users can create as many *worlds* as they like (likely a premium feature)
7. Stretch Goals
   1. Map Maker
      1. User can export map as an image file (likely a premium feature).
   2. Color Themes
      1. Light theme
      2. Dark theme
   3. Ads and revenue streams
      1. Optional one-time purchase for an ad-free experience and premium features

**4.2 Performance**

**4.3 Reliability**

**4.4 Data Description**

**4.5 Security and Safety**

**4.6 Constraints**