

DynamoDB Schema (Finalised)

The AMW application uses a single-table design. Entities (User, Story, Chapter, Media) are stored under one table with Partition Keys (PK) and Sort Keys (SK).

Entities:

- User: stores profile information and login identity.
- Story: top-level container for chapters and media.
- Chapter: sequential parts of a story.
- Media: photos, audio, or video linked to a story or chapter.

Key Example:

- User: PK=USER#<userId>, SK=PROFILE
- Story: PK=STORY#<storyId>, SK=METADATA
- Chapter: PK=STORY#<storyId>, SK=CHAPTER#<number>#<chapterId>
- Media: PK=STORY#<storyId>, SK=MEDIA#<chapterId>#<mediaId>

Example Item (Story)

```
{
  "PK": "STORY#s_001",
  "SK": "METADATA",
  "type": "STORY",
  "storyId": "s_001",
  "userId": "u_123",
  "title": "A Moment With Nana",
  "summary": "Our Sunday rituals.",
  "tags": ["family", "memories"],
  "visibility": "private",
  "createdAt": "2025-09-12T06:10:00Z",
  "updatedAt": "2025-09-12T06:10:00Z"
}
```

This schema design ensures that all core entities (User, Story, Chapter, and Media) are stored in a structured and efficient way. The use of Partition Keys and Sort Keys groups related data together, while Global Secondary Indexes (GSIs) can be added to support fast queries such as listing stories by user or searching by title. This provides a solid foundation for storing and retrieving stories, chapters, and media in the AMW application.