

Design Challenge

An app for game masters in pen&paper role-playing games

Please note: Following advice on the openSAP forums that casual scenarios are also acceptable, the presented app targets a casual user group that is not strictly supported by SAP systems. It has thus been implemented with mockup data using a custom OData-EDMX file. The closest "true" SAP scenario is probably inventory management/material management.

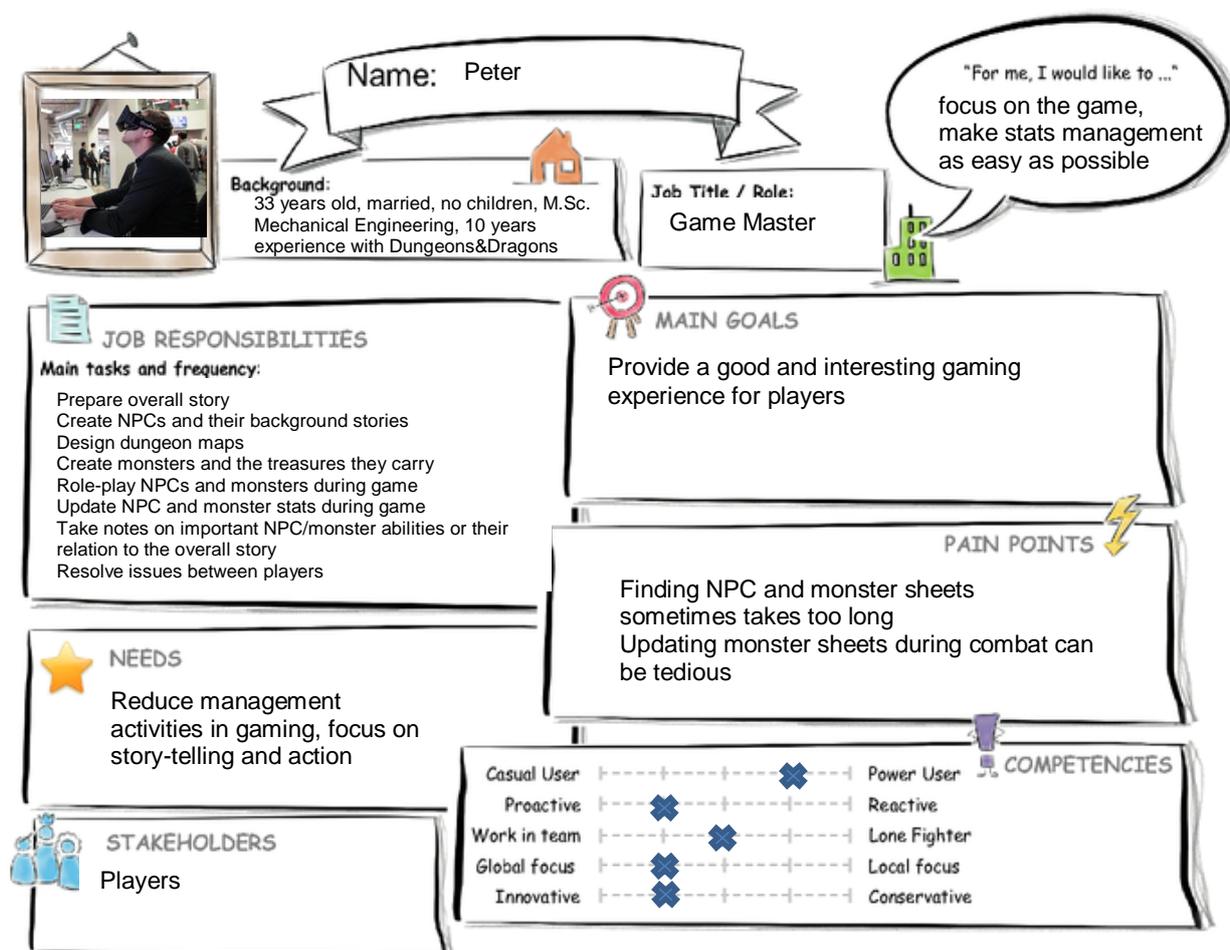
1. Design Thinking Story

Pen&paper roleplaying games (RPGs) such as Dungeons&Dragon are a popular pastime among teenagers and students, especially in nerd culture. In these games, people gather around table and take the role of fictional characters (e.g. a knight or a wizard), that pursue fantastic adventures, in which they explore dungeons, fight monsters and collect treasures. To allow fair judgment about the success of players actions during their journey, characters are defined by a set of physical and mental attributes (e.g. strength), various abilities (lock picking, sword fighting, etc.) and the equipment that the characters owns (e.g. a chain shirt). These statistics are typically recorded on a sheet of paper (hence the name pen&paper game).

A particularly important and work-intensive role in pen&paper RPGs is the so-called Game Master (GM) or Dungeon Master. He/she lays out the story, in particular by defining a variety people the characters meet (so-called non-player characters, NPCs), and with whom they interact, and the monsters the players' characters encounter. For both types, the GM has to manage the above-mentioned statistics, especially as they may change due to interaction/combat with player characters, and to take notes regarding the relevance of those NPCs and monsters for the overall story.

Traditionally, the GMs management tasks have been carried out with stacks of paper, often introducing delays in the flow of the game, especially when GMs try to present epic stories. An app designed for interaction with a tablet, could integrate smoothly with the casual setting and simplify the management of NPCs and monsters during the game; access to the same app on a desktop computer would allow GMs to efficiently prepare the game in advance. To do so, the app needs to provide a quick overview of relevant statistics, and provide efficient access to common actions (e.g. recording an injury in combat, adding a note to an NPC).

2. Persona



3. User Experience Journey

Current User Experience Journey

Duration of the Journey: 40 min



4. App Mockups

4.1. Master List + Info Details

Peter ▾

← Game Master Characters (4)

Search

Old Sewer Dweller **30**

Hit Points

Baldur's Gate Sewers Friendly

Entry Hall

Giant Sewer-Rat 1 **10**

Hit Points

Baldur's Gate Sewers Hostile

Level 1

Giant Sewer-Rat 2 **10**

Hit Points

Baldur's Gate Sewers Hostile

Level 1

Giant Sewer-Rat 3 **10**

Hit Points

Baldur's Gate Sewers Hostile

Level 1

Contact

Giant Sewer-Rat 1 **10**

Hit Points (Current)

Hostile

Location: Baldur's Gate Sewers

Room: Level 1

Size: Medium

Type: Animal

Hit Points (Max.): 10

Speed: 40 ft

Attack: 1d6-2 (bite)

Special Qualities: Disease (Incubation 2d4 hours)

Edit
Add Note

4.2. Master List + Treasure Details

Peter ▾

← Game Master Characters (4)
Contact

Search

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Hit Points

Baldur's Gate Sewers Hostile

Level 1

Giant Sewer-Rat 3 **10**

Hit Points

Baldur's Gate Sewers Hostile

Level 1

Giant Sewer-Rat 1

10

Hit Points (Current)

Hostile

Location: Baldur's Gate Sewers

Room: Level 1

Description	Quantity
Gold	40
Rat Fur	1

Edit
Add Note

5. App Screenshots

5.1. Master List + Info Details

Game Master Characters	Character Details				
<div style="text-align: right; margin-bottom: 5px;"> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Old Sewer Dweller 30 <small>Hitpoints</small> Baldur's Gate Sewers Friendly Entry Hall </td> </tr> <tr style="border: 2px dashed gray;"> <td style="padding: 5px;"> Giant Sewer Rat 1 10 <small>Hitpoints</small> Baldur's Gate Sewers Hostile Level 1 </td> </tr> <tr> <td style="padding: 5px;"> Giant Sewer Rat 2 10 <small>Hitpoints</small> Baldur's Gate Sewers Hostile Level 1 </td> </tr> <tr> <td style="padding: 5px;"> Giant Sewer Rat 3 10 <small>Hitpoints</small> Baldur's Gate Sewers Hostile Level 1 </td> </tr> </table>	Old Sewer Dweller 30 <small>Hitpoints</small> Baldur's Gate Sewers Friendly Entry Hall	Giant Sewer Rat 1 10 <small>Hitpoints</small> Baldur's Gate Sewers Hostile Level 1	Giant Sewer Rat 2 10 <small>Hitpoints</small> Baldur's Gate Sewers Hostile Level 1	Giant Sewer Rat 3 10 <small>Hitpoints</small> Baldur's Gate Sewers Hostile Level 1	<div style="display: flex; justify-content: space-between; align-items: center;"> <div> <h3>Giant Sewer Rat 1</h3> <p>Baldur's Gate Sewers Level 1</p> </div> <div style="text-align: right;"> <p>10 <small>Hitpoints</small></p> <p style="color: red;">Hostile</p> </div> </div> <div style="margin-top: 10px; display: flex; justify-content: space-around;"> <div style="border: 1px solid blue; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; background-color: #007bff; color: white; font-weight: bold;">i</div> <div style="border: 1px solid blue; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; background-color: #007bff; color: white;">\$</div> <div style="border: 1px solid blue; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; background-color: #007bff; color: white;">☑</div> </div> <div style="margin-top: 20px; text-align: center;"> <p>Size: Medium Type: Animal Hitpoints (Max.): 10 Speed: 40 ft Attack: 1d6-2 (bite) Special Qualities: Disease (Incubation 2d4-1 hours)</p> </div>
Old Sewer Dweller 30 <small>Hitpoints</small> Baldur's Gate Sewers Friendly Entry Hall					
Giant Sewer Rat 1 10 <small>Hitpoints</small> Baldur's Gate Sewers Hostile Level 1					
Giant Sewer Rat 2 10 <small>Hitpoints</small> Baldur's Gate Sewers Hostile Level 1					
Giant Sewer Rat 3 10 <small>Hitpoints</small> Baldur's Gate Sewers Hostile Level 1					
Edit Add Note					

5.2. Master List + Treasure Details/List

Game Master Characters

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Old Sewer Dweller	30 Hitpoints
Baldur's Gate Sewers Entry Hall	Friendly
Giant Sewer Rat 1	10 Hitpoints
Baldur's Gate Sewers Level 1	Hostile
Giant Sewer Rat 2	10 Hitpoints
Baldur's Gate Sewers Level 1	Hostile
Giant Sewer Rat 3	10 Hitpoints
Baldur's Gate Sewers Level 1	Hostile

Character Details

Giant Sewer Rat 1

Baldur's Gate Sewers
Level 1

10

Hitpoints

Hostile

i

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Description	Quantity
Gold	40
Rat Fur	1

Running in demo mode with mock data

Edit
Add Note