Project Road Map Team TA30 Learning Recovery Preparing about From THEME Gamification for Bushfire Bushfire **Bushfire** Epic 3: Epic 2: Epic 4: Epic 6: Epic 1: Epic 5: Epic 8: Recognizing Epic 7: Understanding Interactive Survival Community Recovering Badges and Bushfire Quizzes and Skills and Bushfire Analytics Personal Recovery performance Risks and Games Causes Dashboard **Getting Help** Stories measuring Seasons **FEATURES Interactive Bushfire Severity Map** Interactive learning and though **Feature 6.1: Community Forum Feature 8.1: Achievements** provoking questions: • Interactive Map: Displays bushfire severity across Victoria with school **Resource Directory:** List local support • Achievement Badges: Implement a badge • Exploring Trends: Animated map locations overlaid. system to reward progress and performance, showing bushfire occurrences from 1927 services, rebuilding resources, and to 2023 and bar graph for comparison such as "Bushfire Safety Expert" or "Emergency • Search and Select: Allows children to emergency contacts. across time type their school name or select from a Planner." **Community Forums:** Create spaces for dropdown list. • Performance Metrics: Track quiz scores, game • Understanding Risk Levels: Bubble residents to share experiences, advice, achievements, and emergency plan effectiveness • Damage Polygon: Highlights areas graph showing at-risk schools with and recovery tips. to measure and display user performance. affected by bushfire damage. varying sizes. • **History summary:** Provides information • Visualizing School Risk: Interactive on past bushfire damage in affected visualization with clear labels for number areas. **Feature 5.1: Digital comic book (Audio Book)** of school by risk level. Feature 8.2: Machine Learning • Recovery Stories: Brief real-life experiences. **Weather-Based Bushfire Simulator** • Support Resources: Quick access to emotional help. • Tips: Actionable recovery advice. • Offers a dynamic, hands-on way for

• Interactive: Engaging activities or guizzes.

• Visuals: Colorful graphics and animations.

Bushfire Causes:

aged 8-11 years.

practices.

Bushfire History:

1. An animated sequence that visually explains how hot temperatures, dry conditions, and strong winds contribute to bushfires.

Parent and Teacher user guide

1. Development of comprehensive

in bushfire education. This includes

step-by-step instructions and best

1.Interactive Timeline: Shows major bushfire

over the past 20 years in a child-friendly format

2. Easy-to-understand summaries for children

3. **Visually Engaging:** Designed to be appealing

and interactive for a better learning experience.

guides for parents and teachers to aid

- 2. The animation should include simple, child-friendly language and visual cues.
- 3. Character tutors, interactivity to click on elements to learn about causes of bushfires

Bushfire Impact:

- 1. Engaging, colorful infographic showing the impact on animals during the 2019-2020 bushfires.2
- 2. Provides short, child-friendly explanations for easy understanding.

Seasonal Bushfire Variation Bar Chart

- **1.Bar Chart:** Shows seasonal variation in bushfire incidents over the years.
- **2.Interactive Features:** Allows children to explore and interact with the data.
- **3.Dual Versions:** Provides standard and colorblind-friendly versions for accessibility.

Bushfire Danger Rating for Schools

- 1.Risk Rating Display: Show current fire danger ratings for schools based on bushfire data.
- **2.Data Integration**: Use both historical and real-time data for accurate risk assessments.
- **3.Preparedness Support**: Aid schools in understanding and preparing for bushfire risks.

Bushfire Survival Flowchart and Emergency Help

- Flowchart Design: Create a cartoon-style flowchart to explain essential bushfire survival skills.
- Character Integration: Use Australian animal characters to guide children through the survival steps.
- Emergency Help Interface: Develop an interactive interface where characters provide voice-guided instructions for seeking help during an emergency.

Feature 7.1: Quizzes and Games

• Scenario-Based Quizzes: Create quizzes based on real-life bushfire scenarios, focusing on safety, response, and recovery.

children to understand bushfire

development factors.

- Interactive Games: Develop games that simulate bushfire situations, including tasks like creating and implementing an emergency plan.
- Emergency Plan Preparation: Design challenges where users create and customize their own emergency plans, including evacuation routes and safety kits.