Designing a FAIRification game for Research Software

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OBJECTIVE

A gamified training tool designed to enhance awareness and understanding of the FAIR principles.

This initiative offers an engaging approach to tackle FAIRness challenges associated with research software metadata.

Participants embark on a gamification journey, playing to achieve a collective goal while emphasizing the critical aspects of Findability, Accessibility, Interoperability, and Reusability specific to research software.

QUEST

Embark on a maze challenge with two contestants — one well-versed in ontologies and FAIR principles, and the other facing hurdles due to a lack of knowledge. The Ontology Room at the maze's center is a knowledge hub, emphasizing harmonization through a controlled vocabulary.

MISSION

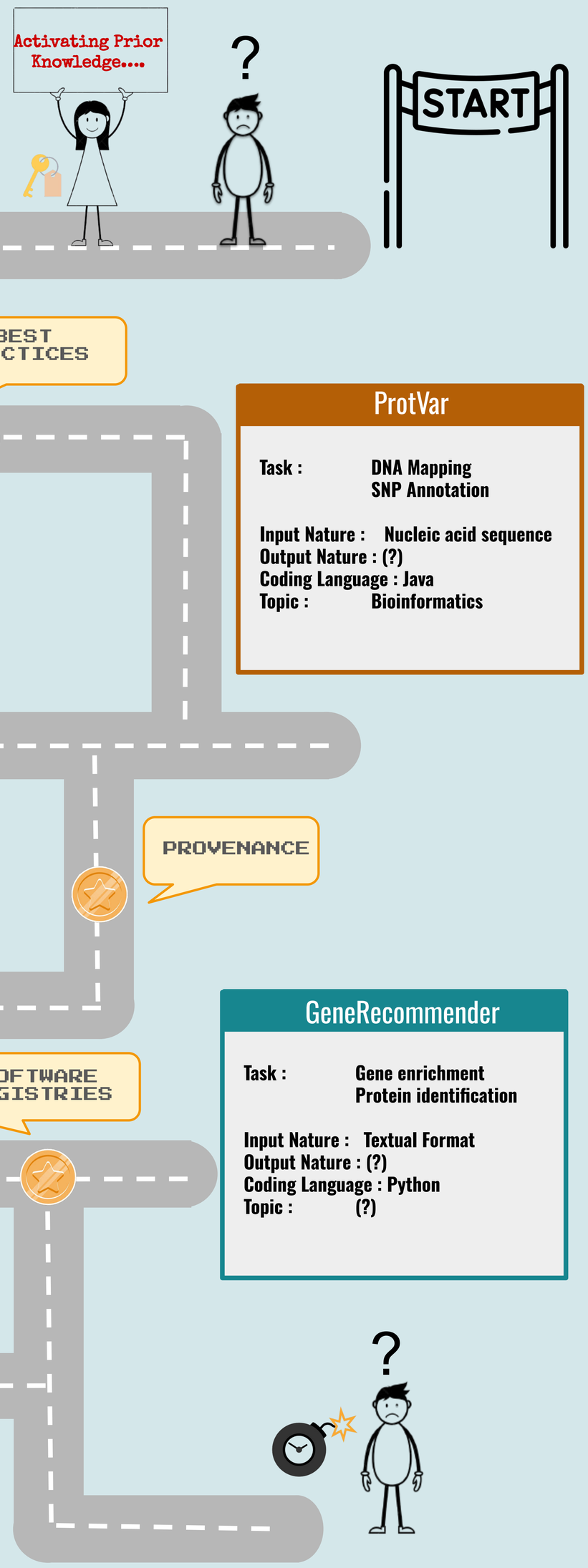
Find software tailored to their needs based on specific characteristics

BACKGROUND

Gamification effectiveness in training tools is evident, with the FAIRification game for Rare Disease Data as a successful precedent.

The game navigates players through the benefits of FAIR data principles featuring an overall task, RS cards, and an ontology room for harmonizing descriptors.

The poster outlines the initial steps in designing the FAIRification game for Research Software and emphasizes its potential impact.



EBI TOOLS

Task : Sequence Similarity Search, Protein function analysis, Multiple sequence alignment
Input Nature : (?)
Output Nature : (?)
Coding Language : (?)
Topic : Proteins

ProtVar

Task : DNA Mapping, SNP Annotation
Input Nature : Nucleic acid sequence
Output Nature : (?)
Coding Language : Java
Topic : Bioinformatics

ANNOVAR

Task : Sequence analysis, Gene functional annotation
Input Nature : (?)
Output Nature : (?)
Coding Language : R, HTML
Topic : Functional genomics

GeneRecommender

Task : Gene enrichment, Protein identification
Input Nature : Textual Format
Output Nature : (?)
Coding Language : Python
Topic : (?)

OMIM

Task : Genetic Mapping
Input Nature : (?)
Output Nature : (?)
Coding Language : C++, C, Java
Topic : Genotype and Phenotype

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