

SNP Web-portal

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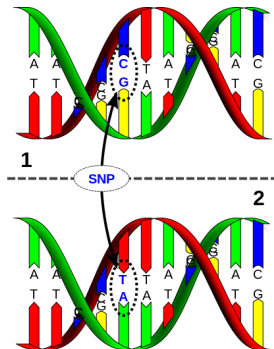
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Project description

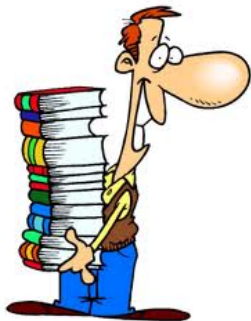
Medical background

Single-Nucleotide Polymorphism

DNA sequence variation occurring when a Single Nucleotide — A, T, C or G — in the genome (or other shared sequence) differs between members of a biological species or paired chromosomes.



Goal



Allow users to store and query Single Nucleotide Polymorphism genomics variants.

How to reach it?

Realization of a **Web Portal**.

Functionalities

Super User:

- create a “family” with one or more members
- authorize users
- modify inserted values

Authorized User:

- search for a patient, gene, mutation, ...

Project Structure

Database:

immagine relazioni

Application logic:

query

Website (User Interface):

Enables users to:

- quello che permette di fare il sito web
- ...

Use case

Use case diagram:

diagramma

Software architecture

To realize the project we will use:



Database: **MongoDB**



Website: **Javascript**