**PROJECT**

1. **Task 1:**
2. Result screenshots:

**Graphical user interface, text, application, email

Description automatically generated**On running the server, the browser loads the following screen for the user:

***Figure 1: Landing page***

MD5 is the default hash function. The user can input a string of his choice in the input box, select the hash function of his choice and click on the submit button.

Graphical user interface, text, application

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***Figure 2: User inputs string “Hello” and selects default MD5 hashing***

**Graphical user interface, text, application, email

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***Figure 3: Hex and Base64 encoded output for string “Hello” hashed using MD5***

**Graphical user interface, text, application, email

Description automatically generated**

***Figure 4: User inputs “Hello” and selects SHA-256 hashing***

**Graphical user interface, text, application, email

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***Figure 5: Hex and Base64 encoded output for string “Hello” hashed using SHA-256***

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***Figure 6: Computation of hashing and encoding***

1. **Task 2**
2. Result screenshots:

Graphical user interface, text, application

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***Figure 6: Input page of Task 2***

Graphical user interface, application, Word

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***Figure 7: Dropdown menu of countries***

***Graphical user interface, text, application, email

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***Figure 8: Output for United States***

***Graphical user interface, text, application, email

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***Figure 9: Output for Great Britain/ United Kingdom***

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***Figure 10: Scrapping of population and GDP***

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***Figure 11: Scrapping of medals***

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***Figure 12: Getting estimated medals***

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***Figure 13: Scrapping of flag***

1. **Task 3**
2. Result screenshots:

Graphical user interface, text, application

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***Figure 14: Input page***

***Graphical user interface, text, application, email

Description automatically generated***

***Figure 15: Output page after selection***

Graphical user interface, text, application

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***Figure 16: No selection output page***

Graphical user interface, text, application, email

Description automatically generated

***Figure 17: Results page after selection***

**Graphical user interface, text, application

Description automatically generated**

***Figure 18: Mobile output after one vote***

***Graphical user interface, text, application

Description automatically generated***

***Figure 19: Mobile output for results page***

1. Code snippets:

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