Project Title: Programming Basics Website

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Programming Basics Website – Documentation

This documentation presents the Programming Basics Website project in a simple bullet-point format. The language is kept easy and clear for quick reading and understanding. The document includes introduction, objectives, tools used, website explanation, database, SQL, Canva work, GitHub steps, learning outcomes and conclusion.

Introduction

- Programming is used in almost every field today.
- Computers, mobiles, banking, internet services all run using programs.
- Many students think programming is difficult at the beginning.
- This website helps beginners learn programming basics in simple words.
- The project contains a website, database theory, Canva design and GitHub uploading.
- The main focus is to make programming easy to understand.

Objectives of the Project

- To create a simple educational website.
- To learn HTML for webpage structure.
- To use CSS for webpage design and styling.
- To make multiple connected webpages.
- To understand database basics and SQL queries.
- To design banner, logo and poster using Canva.
- To upload project on GitHub.
- To improve confidence in programming and web designing.

Tools and Technologies Used

- HTML – for webpage structure
- CSS – for page design and styling
- Web Browser – to open and test webpages
- Text Editor / VS Code / Notepad / TextEdit – to write code
- Canva – to create banner, logo and poster
- GitHub – to upload and store the project
- SQL – for theoretical database queries

Website Pages Explanation

Home Page:

- Home page is the first page of the website.
- It contains title and short welcome text.
- Gives small introduction to programming basics.
- Contains navigation menu to open other pages.

About Page:

- Explains what the website is about.
- Tells why programming is important today.
- Explains aim and purpose of the project.

Services / Features Page:

- Lists the topics covered in the website.
- Explains features and learning areas.
- Includes basics like variables, loops and conditions.

Contact Page:

- Contains contact form.
- Form has fields like name, email and message.
- Used to collect queries and feedback from users.

Database Design (Theoretical)

- Database Name: programming_basics_db
- The database is theoretical (not implemented physically).
- It is designed to show how data would be stored in real websites.

Tables in the database:

- students – stores student name and email
- courses – stores course name and level
- contact_messages – stores name, email and message from contact form

SQL Queries Used in the Project

- CREATE – used to create new tables
- INSERT – used to add new records
- SELECT – used to display data
- UPDATE – used to modify data
- DELETE – used to remove data from table

Canva Designing Work

- Website banner was created.
- Logo was designed using initials PB.
- Poster / social media post was made.
- Learned color selection and font style.
- Improved creativity and design skills.

GitHub Work

- A new GitHub repository was created.
- All website files were uploaded.
- Documentation was added.

- README.md file was written.
- Project can now be shared easily online.

Learning Outcomes from the Project

- Understood how websites are created.
- Learned HTML tags and structure.
- Learned CSS styling and formatting.
- Understood SQL basics theoretically.
- Learned to create designs using Canva.
- Learned to upload projects using GitHub.
- Gained confidence in programming.

Conclusion

- The project was successfully completed.
- All pages of the website were designed.
- Database theory and SQL queries were written.
- Canva designs were created.
- Project was uploaded to GitHub.
- Overall, the project improved technical and creative skills.