

BRAIN SPARK; A LEARNING PLATFORM

PROJECT TEAM: BRAIN SPARK

Members with their respectful GITHUB IDs

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Abstract

This report documents the design, development and implementation of a splendid learning platform **BRAIN SPARK**. This project was executed over four weeks following **Agile Workflow**, integrating HTML5, CSS3, JavaScript, PHP, and MySQL. The core objective was to deliver fun things for everyone to learn and explore.

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Project over view and SDLC Management

INTRODUCTION:

Brain spark is a wonderful learning platform where users can learn free information.

It is a learning platform designed to teach non-traditional, real-life related topics that schools usually don't cover-manipulation awareness, dark psychology, communication skills, personal awareness, space science, life skills etc.

Our website has 4 main navigations:

1) Home

- AI assistant/ Chatbot to help users
- portions with images (1-2 sentence descriptions) :
- Hyperlinks to connect us to the side webpages.

2) About us

- introduction to team members.

3) Contact Us

- Emails and numbers

4) Suggestion/ Queries.

- a form that the users can fill and prepare the developing team suggestions and address their Queries is given

Purpose

→ The purpose of this document is to outline the complete software Development Life Cycle (SDLC) plan for the development of Brain Spark : A learning Platform. This document defines how the website will/was designed and developed. It will also cover the parts about its maintenance and testing and implementation.

It helps us ensure every stage is planned, traceable and aligned with the project's vision and objectives.

Scope

→

- Development of a multi-page educational website called Brain Spark
- Multiple topic pages: covering real-life concepts such as Psychology, Communication skills, dark psychology and several more splendid topics.
- About us page introducing the team members
- Hyper-link –based navigation between pages.
- Clean user friendly interface suitable for self-learners.
- No a signing's required
- No payment required
- saves time

Intended Users.

- General Learners/ Visitors
- Students and Young adults
- Admin/ Development team
- Educators or Guiders Optional):

SDLC Model

→ We are using the Agile SDLC Model. It is a flexible, iterative and collaborative development approach that allows continuous improvement throughout the project. It helps us break the work into small cycles called sprints where we plan, build, test and Improve features steps by step.

The Agile Software Development Life Cycle (SDLC) is an iterative and incremental development approach that focuses on flexibility, continuous customer feedback, and rapid delivery of functional software. Instead of completing the entire project in one sequence, development is divided into small, manageable cycles called iterations or sprints.

Agile SDLC Cycle (Phases)

- Requirement Gathering & Planning

High-level requirements are identified and prioritized in collaboration with stakeholders. Planning is done for short iterations.

- Design

Simple and flexible system design is created for the features selected in the iteration.

- Development (Iteration/Sprint)

Coding of selected features is done in short time frames (usually 1–4 weeks).

- Testing

Continuous testing is performed to detect defects early and ensure quality.

- Deployment

A working version of the software is released to the customer or users.

- Review & Feedback

Stakeholders review the product, provide feedback, and suggest improvements.

- Maintenance & Enhancement

Bugs are fixed, and new features are added in future iterations.

This cycle repeats until the final product is complete.

NAME	WEEK 1	WEEK 2	WEEK 3	WEEK 4
Khushi GID: sandexists	Product Owner	Repo Manager	Back-end developer	Front-end developer
Ashish GID:Ashish-pdl45	Repo Manager	Product Owner	Front-end developer	Back-end developer
Prajwal GID:Prajwalkhadka2997	Front-end developer	Back-end developer	Product Owner	Repo Manager
Rashmi GID: Rashmi5168	Back-end developer	Front-end developer	Repo Manager	Product Owner

Requirements and Design Specification

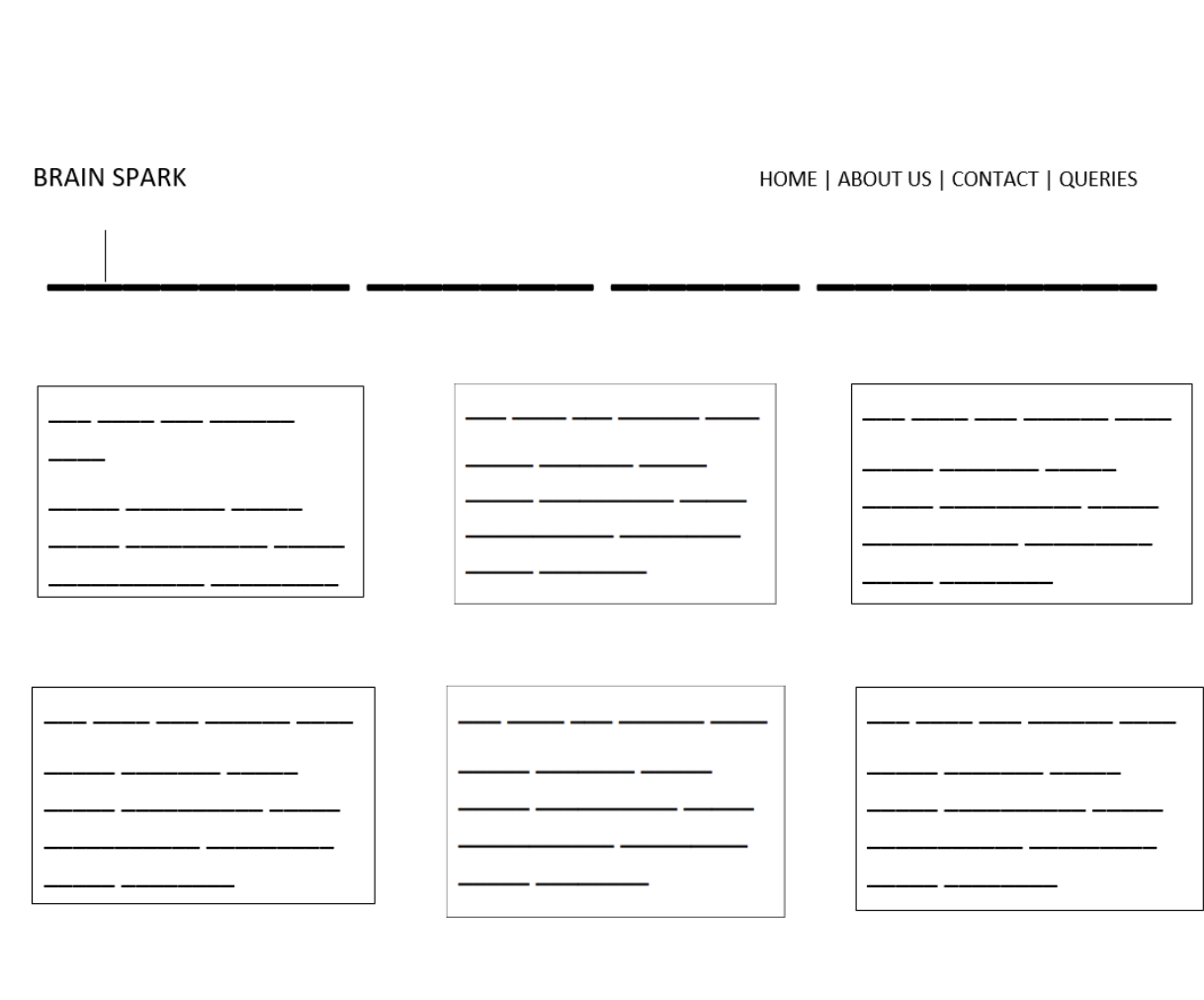
2.1 Functional Requirements (The 5 Core Features)

ID	FEATURE (USER STORY)
BR-001	As a Guest, I want to view a list of all available webpages, so I can choose the one I am interested in.
BR-002	As a Guest, I want to see clear navigation links, so I can easily move between pages.
BR-003	As a Guest, I want the site to display correctly on my phone, so I can use it anywhere.
BRD-1(FOR DEVELOPERS)	As a Developer, I want to add a new topic to the inventory, for a new webpage.
BRD-2	As a Developer, I want to be able to analyze the webpages and be able to manage any problems that might occur in any of the webpages

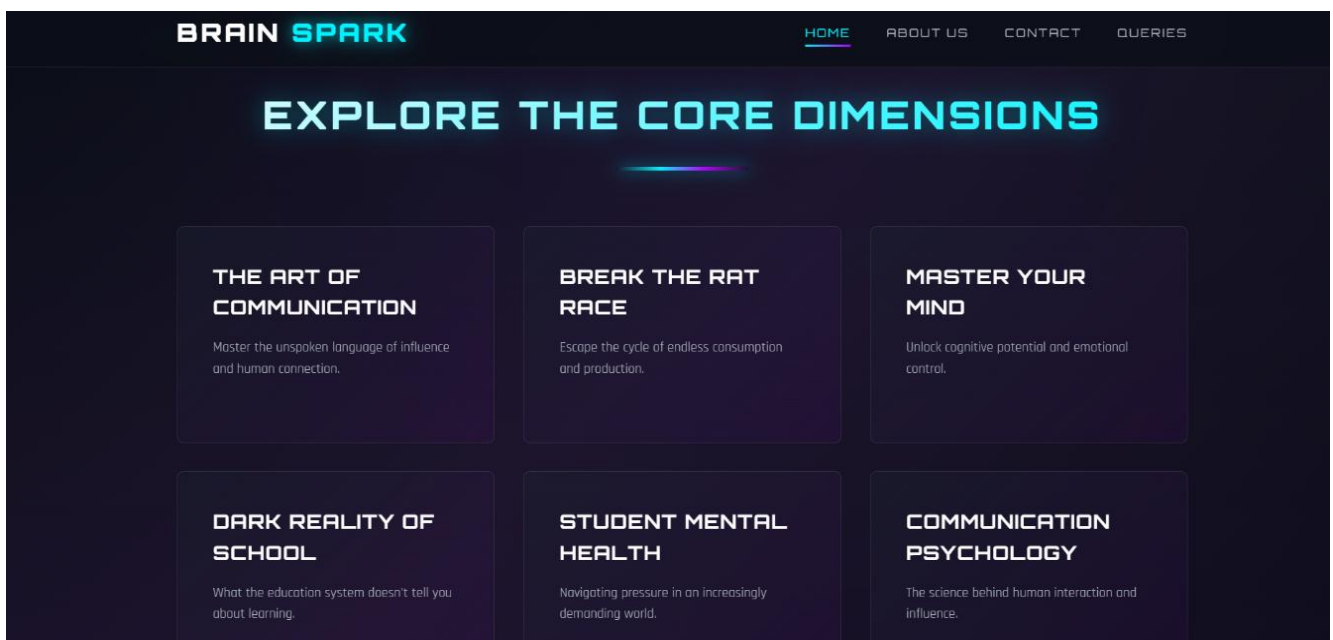
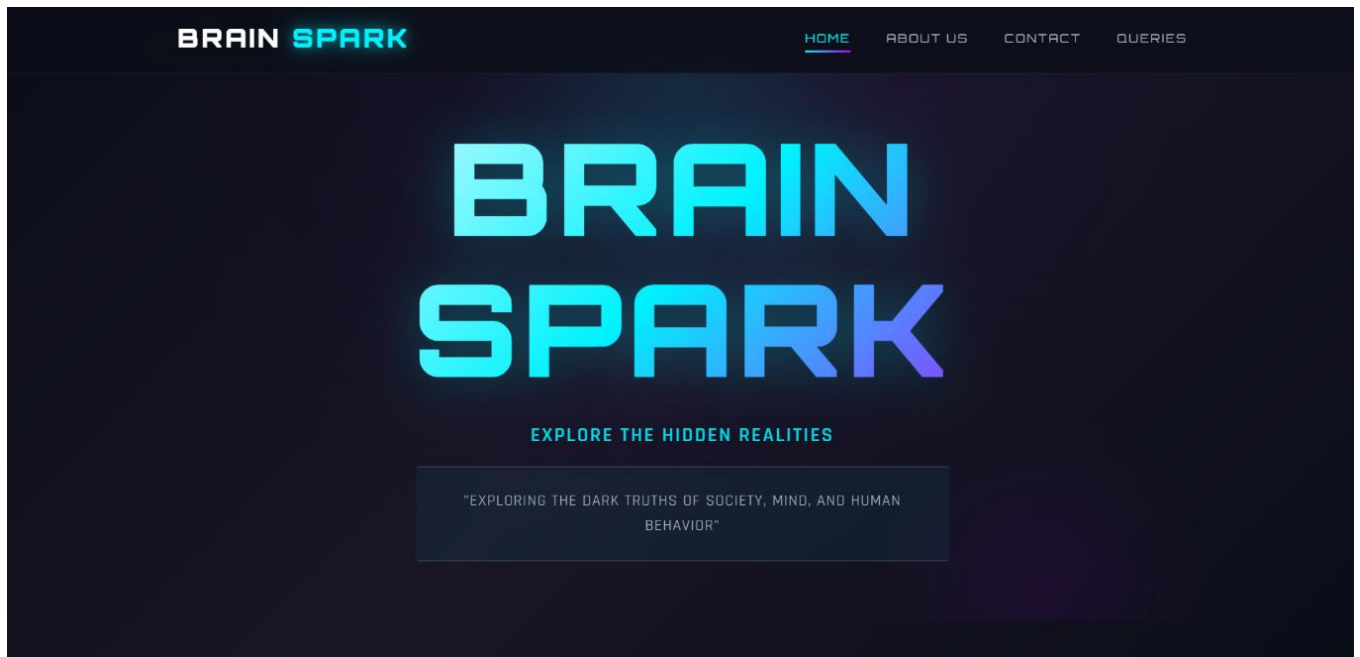
2.2 Design Architecture

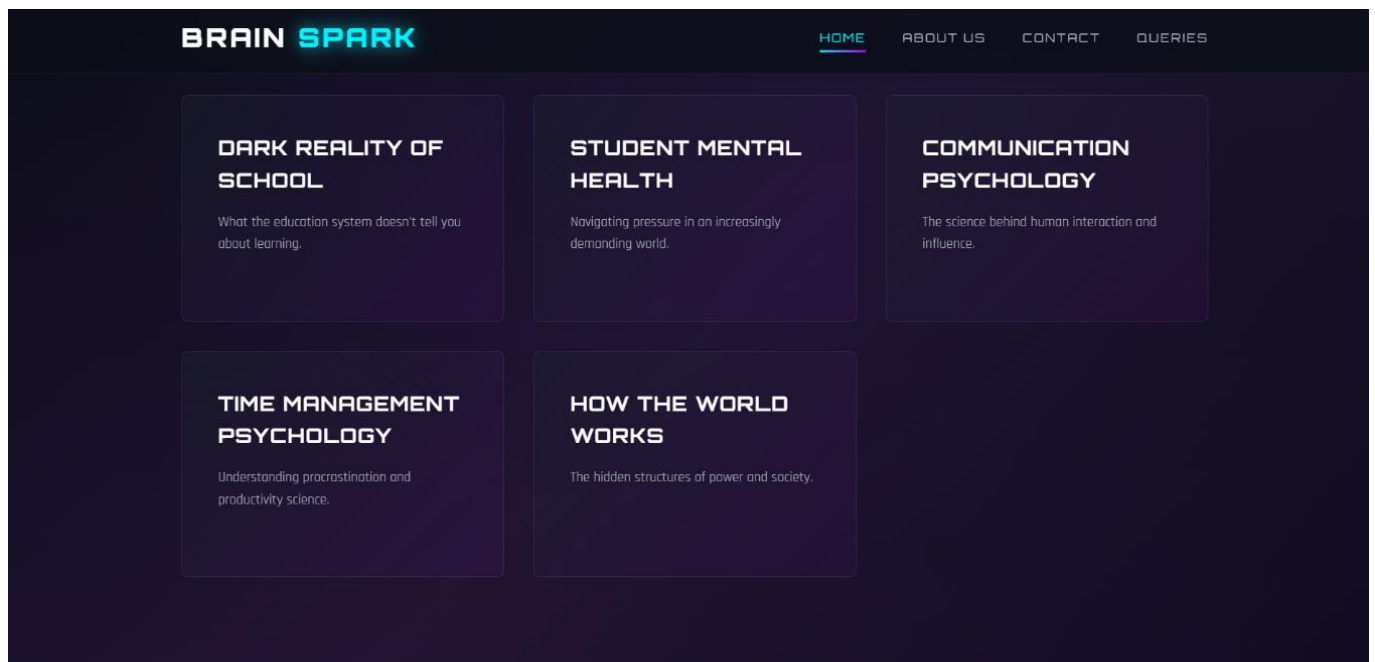
- Interface (Wireframes):

Overall view

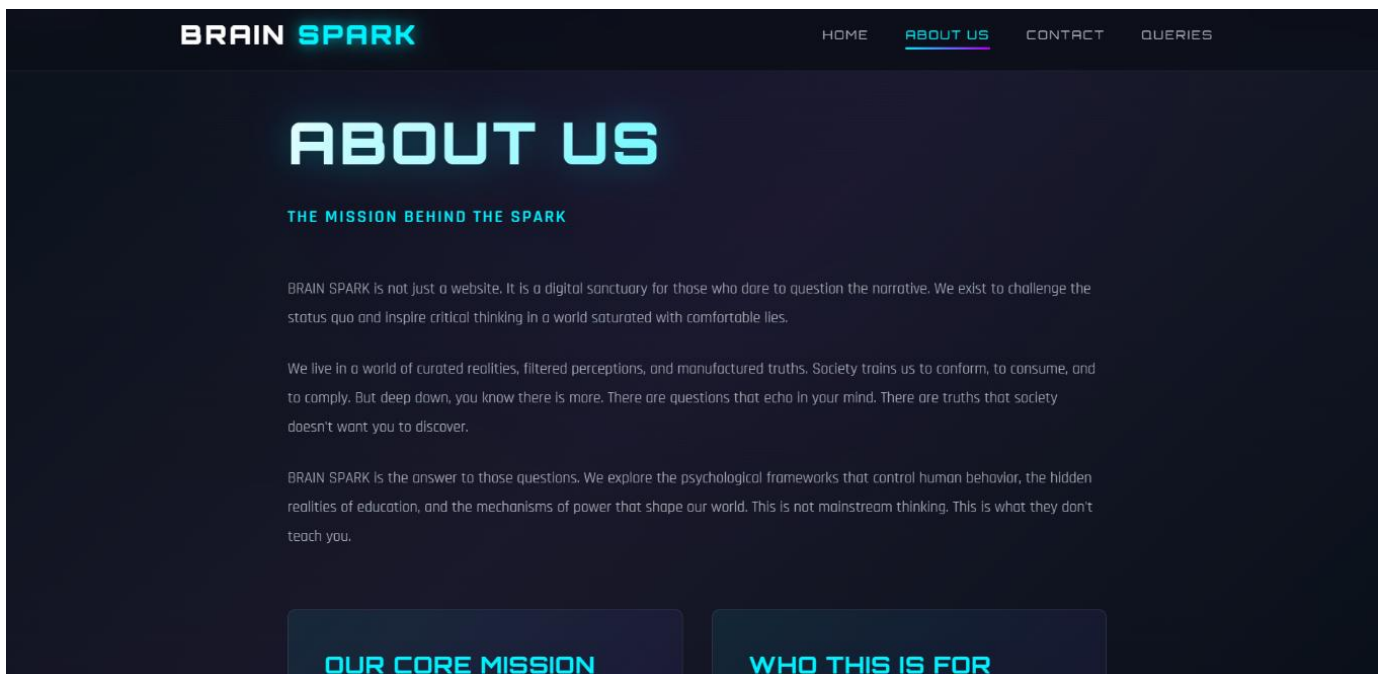


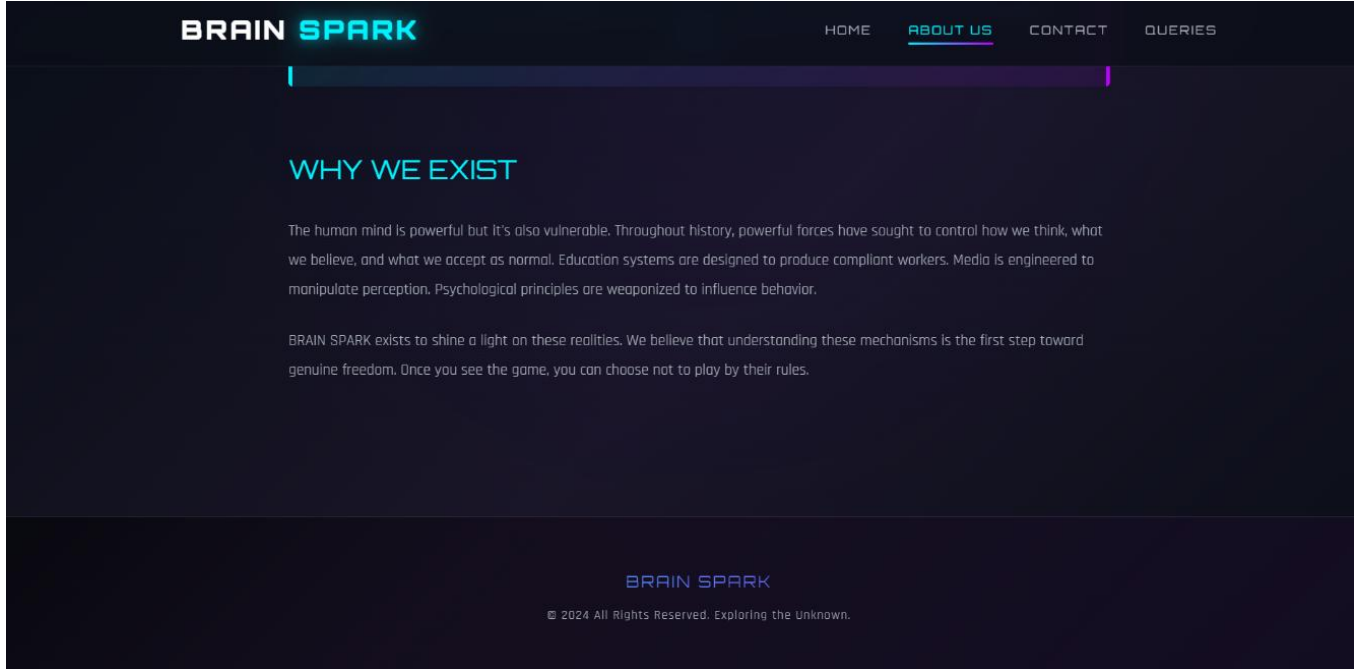
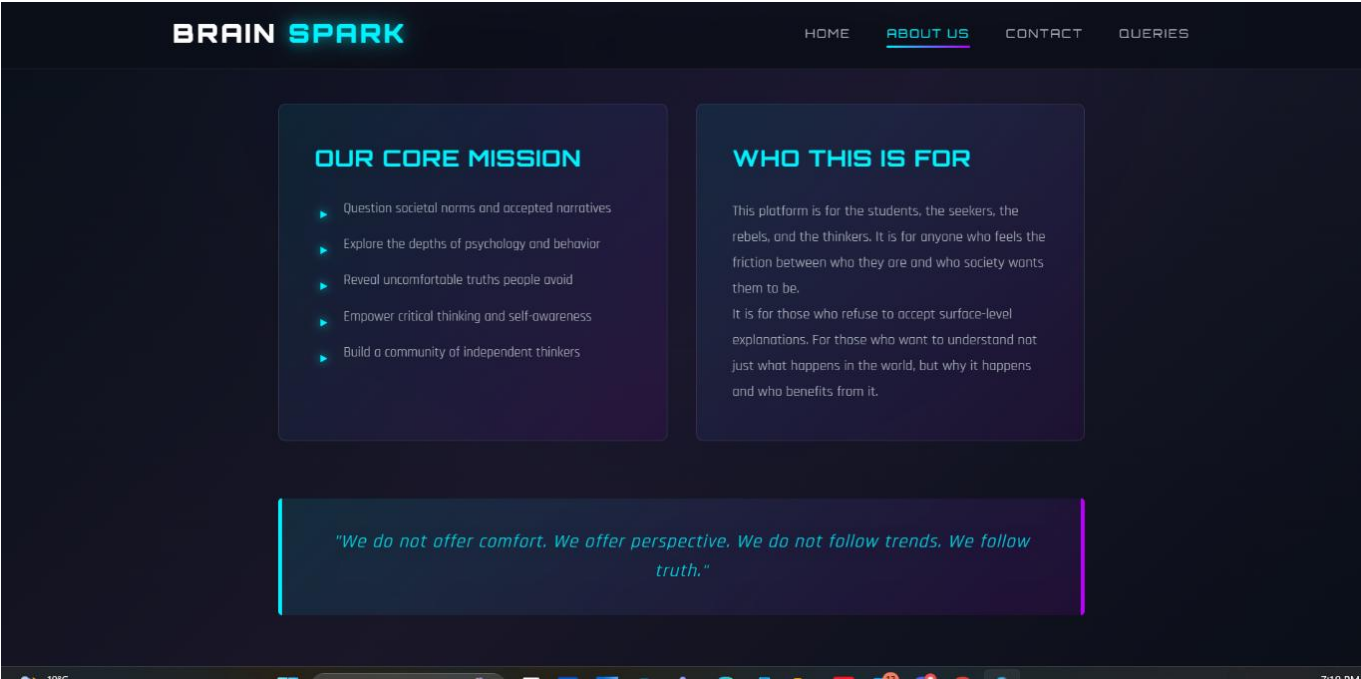
1.HOME PAGE





2.ABOUT US





3.CONTACT US

BRAIN SPARK

HOMEABOUT USCONTACTQUERIES

CONTACT US

ESTABLISH CONNECTION WITH THE CORE

NAME

Your full name

EMAIL

your@email.com

PHONE (OPTIONAL)

+1 (555) 000-0000

SUBJECT

What is this about?

BRAIN SPARK

HOMEABOUT USCONTACTQUERIES

MESSAGE

Tell us your thoughts...

INITIATE TRANSMISSION

BRAIN SPARK

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4.QUERIES

BRAIN SPARK

HOMEABOUT USCONTACTQUERIES

QUERIES & IDEAS

EXPAND THE COLLECTIVE INTELLIGENCE

TYPE OF TRANSMISSION

Select a category

EMAIL

your@email.com

SUBJECT

Brief title of your thought

DETAILS

Elaborate on your idea, query, or suggestion...

BRAIN SPARK

HOMEABOUT USCONTACTQUERIES

What does your idea mean?

DETAILS

Elaborate on your idea, query, or suggestion...

UPLOAD DATA

BRAIN SPARK

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