

**Project Design Phase-I**  
**Proposed Solution Template**

<b>Date</b>	05/12/2023
<b>Team ID</b>	Team-592216
<b>Project Name</b>	Brain Tumor Detection
<b>Maximum Marks</b>	2 Marks

<b>S.No.</b>	<b>Parameter</b>	<b>Description</b>
1.	Problem Statement (Problem to be solved)	Many individuals face challenges in early detection of brain tumors, leading to delayed diagnosis and treatment. Existing methods may be invasive, expensive, or lack accessibility, hindering timely intervention and increasing health risks.
2.	Idea / Solution description	Introducing a non-invasive, accessible, and cost-effective brain tumor detection solution utilizing advanced imaging technology, possibly based on AI algorithms. This solution aims to offer early detection,

		enabling prompt medical intervention and improving overall patient outcomes.
3.	Novelty / Uniqueness	The solution incorporates cutting-edge artificial intelligence algorithms to analyze brain scans, enhancing accuracy and speed in tumor detection. Additionally, it focuses on accessibility, making use of existing medical imaging infrastructure to reduce costs and increase widespread adoption.
4.	Social Impact / Customer Satisfaction	The primary social impact is early detection, leading to improved patient outcomes, reduced treatment costs, and increased chances of survival. Customers will benefit from a non-invasive and efficient diagnostic tool that provides peace of mind, quick results, and increased accessibility to brain tumor screening.
5.	Business Model (Revenue Model)	The business model involves a combination of one-time diagnostic fees and subscription-based services. Diagnostic fees can be charged per scan, while subscription services may include continuous monitoring for high-risk individuals or additional features like detailed analysis reports. Partnerships with healthcare providers and

		insurance companies can also be explored for collaborative revenue models.
6.	Scalability of the Solution	The solution is designed to be scalable by leveraging cloud-based infrastructure for AI algorithms, making it adaptable to varying healthcare settings. Collaborations with existing medical facilities and partnerships with technology providers can facilitate rapid deployment and scaling. Continuous improvements in the AI models and regular updates will ensure the solution remains relevant and effective over time.

By addressing the challenges associated with brain tumor detection through a novel, accessible, and scalable solution, this initiative not only contributes to improved healthcare outcomes but also presents a viable business model with potential for growth and societal impact.