
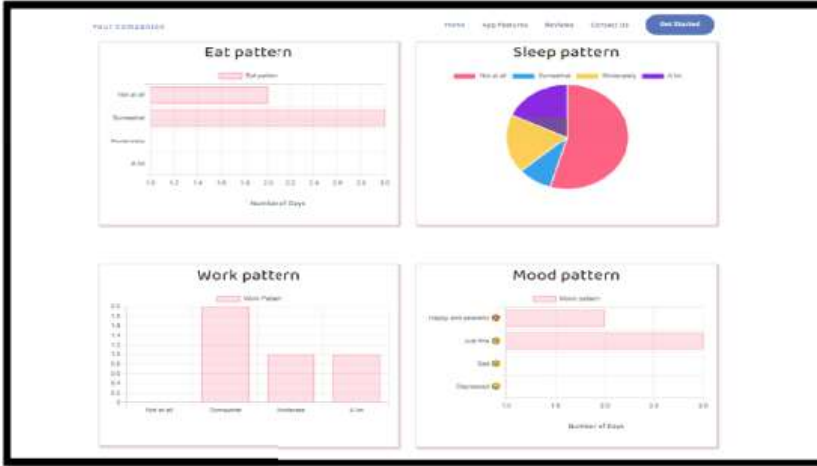




Final Year Project Showcase for Batch-2016

<b>Department of Biomedical Engineering</b>		
<b>1</b>	<b>Project Idea</b>	Development of a user-friendly AI chatbot for the assessment and therapy of mild depressive patients
<b>2</b>	<b>Process</b>	The development process basically consisted of three phases. The first phase of project was to do research on the content and chat structure for Chatbot. The second phase was the development of Chatbot on Google's AI agent Dialogflow and the third phase was interlinking Web app with Chatbot
<b>3</b>	<b>Outcome</b>	A Web application of Chatbot is developed which does user friendly, emphatic & therapeutic conversation. In this Web application, user consent & data privacy are given utmost importance and analysis of patients' behavior is also analyzed through different visualizations
<b>4</b>	<b>Evidences (Theoretical Basis)</b>	We took help from different psychologists for chat development and content. Books based on CBT(Cognitive behavioral Therapy) and research papers were also read thoroughly for chat pattern selection
<b>5</b>	<b>Competitive Advantage or Unique Selling Proposition</b> (Cost Reduction, Process improvement, Attainment of any SDG (Sustainable Development Goal), increase of market share or capturing new market or having superior performance over competitor. In summary, any striking aspect of the project which compels industry to invest in FYP or purchase it. Some detail description is required in terms of how, why when what. You can select one or more from following dropdown and delete rest of them)	
<b>a</b>	<b>Process Improvement which leads to superior product or cost reduction, efficiency improvement of whole process</b> (e.g. What is issue is current process and what improvement you suggests)	The existing mental health AI chatbots do not provide thematic chat for each day. We have focused on different aspects of a person's life for example relationships, studies (if student), habits etc each day our chatbot talks in emphatic way to address issues in them and provide suitable solution.
<b>b</b>	<b>Attainment of any SDG</b> (e.g. How it is achieved and why it is necessary for the region)	In Pakistan, mild depression is not given major attention but it can lead to complexities in future thus assisting psychologist in improvement of it can be a helpful step
<b>c</b>	<b>Expanding of Market share</b> (e.g. how it expand and what is problem with current market)	In Pakistan no such application has been introduced it is unique in its kind but international market has better versions of the app yet they are not free to use
<b>d</b>	<b>Capture new market</b> (e.g. Niche market or unaddressed segment)	Since mild depression is prevailing thus addressing this issue and providing assistance to psychiatrist can help in capturing new market
<b>e</b>	<b>Any Environmental Aspect</b> (e.g. carbon reduction, energy efficient etc.)	Mental Health improvement of people

6	<b>Target Market</b> (Industries, Groups, Individuals, Families, Students, etc) Please provide some detail about user of the product, process or service	Individuals with mild depression or no mental health issue can use it especially it is helpful for students. As the web app is designed in English thus awareness of it is necessary
7	<b>Team Members</b> (Names & Roll No.)	Syeda Zoha Urooj (BM-16301), Zubair Anis(BM-16074) Haleema Inam(BM-16053), S. Yousuf Hussan(BM-16060)
8	<b>Supervisor Name</b>	Engr. Tajwar Sultana ( <a href="mailto:tajwar.aman@gmail.com">tajwar.aman@gmail.com</a> )
9	<b>Pictures</b>	<div data-bbox="639 590 1313 911">  <p>The landing page features a large smartphone graphic on the right displaying the app interface. The text on the left reads: "Your Companion. We're infusing artificial intelligence and principles of psychiatry to create a powerful mental health solution that can reach millions." Below this is a "Get Started" button.</p> </div> <p align="center"><i>Figure 1: WEBSITE, LANDING PAGE</i></p> <div data-bbox="647 976 1471 1438">  <p>The dashboard displays four charts for a user named "Syeda Zoha Urooj":</p> <ul style="list-style-type: none"> <li><b>Eat pattern:</b> A horizontal bar chart showing the number of days for different eating habits: "Eat at all" (approx. 18 days), "Somewhat" (approx. 22 days), and "Not at all" (0 days).</li> <li><b>Sleep pattern:</b> A pie chart showing the distribution of sleep quality: "Not at all" (approx. 40%), "Somewhat" (approx. 30%), "Mostly" (approx. 20%), and "All" (approx. 10%).</li> <li><b>Work pattern:</b> A vertical bar chart showing the number of days for different work patterns: "Eat at all" (0), "Somewhat" (approx. 1.8), "Mostly" (approx. 1.2), and "All" (approx. 1.0).</li> <li><b>Mood pattern:</b> A horizontal bar chart showing the number of days for different mood states: "Happy and positive" (approx. 18 days), "Just fine" (approx. 22 days), "Sad" (0 days), and "Depressed" (0 days).</li> </ul> </div> <p align="center"><i>Figure 6: GRAPHS REPRESENTING DIFFERENT PATTERNS OF LIFE</i></p>



		 <p><i>Figure 2: CHAT PAGE OF WEBSITE</i></p>
10	Video	<a href="#">Play Video</a>