







## III Year B.Tech-I Semester Project (Phase-I) Summary Sheet

<b>ProjectTitle:</b>	Browser-Agent WebUI			
<b>ProjectCode:</b>	23CIAD1E07	<b>BatchSize:</b>	3	<b>Batch:</b> 2023-27
<b>Domain/Area:</b>	Artificial Intelligence/Web-Automation		<b>SDGMapping</b>	9
<b>Abstract:</b>	This project provides a modular web-based interface for automating browser tasks using intelligent agents. Users interact through a Gradio-powered UI, submit prompts, and receive results processed by backend agents. The system streamlines complex workflows, enabling efficient, automated web interactions and research, all accessible from a user-friendly browser interface.			
<b>Technical(S/w&amp;H/w)Specifications</b>		<b>Module(s)Specifications</b>		
<b>S/w Requirements:</b> Browser-use,pyper-clip,gradio,langchain Development Enviroment:Python Operating System:Windows 10/Linux/Mac <b>H/w Requirements:</b> Processor:i5 or higher Ram:8GB or more Storage:2GB free recommended		1)User input-Event Handling 2)Routing-Control flow 3)Agent task-Scripted Automation 4)LLM-transformer(via API)		
<b>Architecture Diagram</b>		<b>Methodology</b>		
<pre> graph TD     Start(( )) --&gt; RunWebUI[Runs webui.py]     RunWebUI --&gt; UserPrompt[User gives prompt]     UserPrompt --&gt; Controller[Controller Receives prompt]     Controller --&gt; SelectAgent[Select the agent and run it]     SelectAgent --&gt; AgentTask[Agent performs task]     AgentTask --&gt; DisplayResults[Displays the results]     DisplayResults --&gt; End((( )))           </pre>		This project uses Python, Gradio, and browser automation to enable users to submit prompts via a web interface. A modular backend routes requests to intelligent agents, which automate web tasks or use language models. Results are processed and displayed instantly, streamlining complex workflows and enhancing user productivity.		
<b>Existing System</b>		<b>Proposed System</b>		
1)Manual Task Execution: Users perform all web tasks 2)No Centralized Interface: Users switch between multiple w ebsites 3)No Automation: Every step is user-driven 4)No Workflow Recording: Users cannot save or replay 5)No Intelligent Assistance: No AI or language model integration to help with complex tasks		1)Automated Task Execution: Intelligent agents perform browser tasks 2)Centralized Web UI: Users interact with all automation features 3)Workflow Recording & Playback: Users can record, save, and replay 4)AI Integration: Agents can leverage language models for advanced reasoning 5)Human-in-the-Loop & Visualization: Users can pause automation		
<b>GuideDetails</b>		<b>BatchMembersDetails</b>		
 <div> <b>Dr. Gayatri</b>           MRCET          Campus          UGC          Autonomous          Institution          Govt of India          Hyderabad       </div>		<div>    </div> <div> <div>D.Varshitha</div> <div>S.Shiva Krishna</div> <div>T.Balaji</div> </div> <div> <div>23N31A66Y3</div> <div>23N31A66U6</div> <div>24N35A6629</div> </div>		

