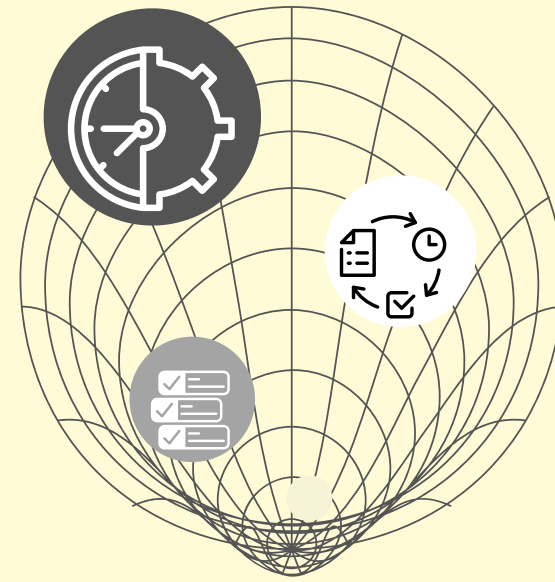




INTRODUCTION

RGT, short for Really Great Tech, is a software development company with teams in Israel and Ghana. They've been around for over ten years, building software and helping clients bring their ideas to life. As part of the project, to optimize the lifecycle of project services, we have created the Automated SOW tool. This web tool uses artificial intelligence to help create a Statement of Work (SOW) for new software projects. It's designed to make the deep planning process clearer and more efficient by using LLM and AI new tools, information from past projects, user inputs and web search.



GOALS & MOTIVATION

RGT aims to create the Automated SOW tool to refine and elevate the software planning process. Traditional methods of creating a Working plan often involved manual efforts, which could be time-consuming and prone to errors. Leveraging AI, this tool streamlines project planning by integrating past data, user inputs, and web searches, reflecting RGT's dedication to innovation and efficiency.

LLM PR & METHODOLOGY

The Automated SOW project is rooted in the forefront of AI technology, leveraging the power of Large Language Models (LLMs) and the LangChain framework. LLMs, a subset of generative AI, utilize deep learning techniques and vast data sets to understand, summarize, generate, and predict new content. In our project, we delve into the architecture of LLMs, gaining insights into components such as prompts, chains, and various OpenAI models. **LangChain** (framework for developing applications powered by language models) enhances this by providing a structured framework tailored for applications driven by these sophisticated language models. Together, LLMs and LangChain constitute the project's technological core, with the ambition to redefine intuitive language processing and dynamic application interactions. On the implementation side, we used Python with the **Flask** framework, **React** framework, **SqlAlchemy** framework for database creation and integration with Flask server, **MySQL with RDS AWS** services for data storage.

PROJECT OBJECTIVES

- 1 Develop a reliable, AI-based, and data-driven Development Working plan for new software projects at RGT.
- 2 Enhance the SOW development process by combining AI, automated web searches, and RGT's expertise and capabilities
- 3 Provide a clear roadmap, expected durations, technical implications, and financial management plans for the development stage.

PRODUCT OVERVIEW

The Automated SOW web-tool, driven by generative AI, streamlines tech solution planning and readies projects for the engineering stage. Using embedded memory, the AI agent analyzes the product idea, considers RGT team skills, and the preferred technological stack to define the application's core components. It crafts a detailed working plan, encompassing features, user stories, and tasks. With its interactive interface, users can manage projects in real-time, while the tool anticipates challenges, offering solutions based on RGT's extensive expertise.

CORE USE-CASES

Project Creation & Management: Initiate, oversee, and conclude multiple projects.

Task Allocation & Monitoring: Assign tasks to team members and track their progress

Dynamic Timeline Management: Set and adjust project milestones and deadlines in real-time

Real-time Dashboard Overview: Gain insights into all ongoing projects at a glance

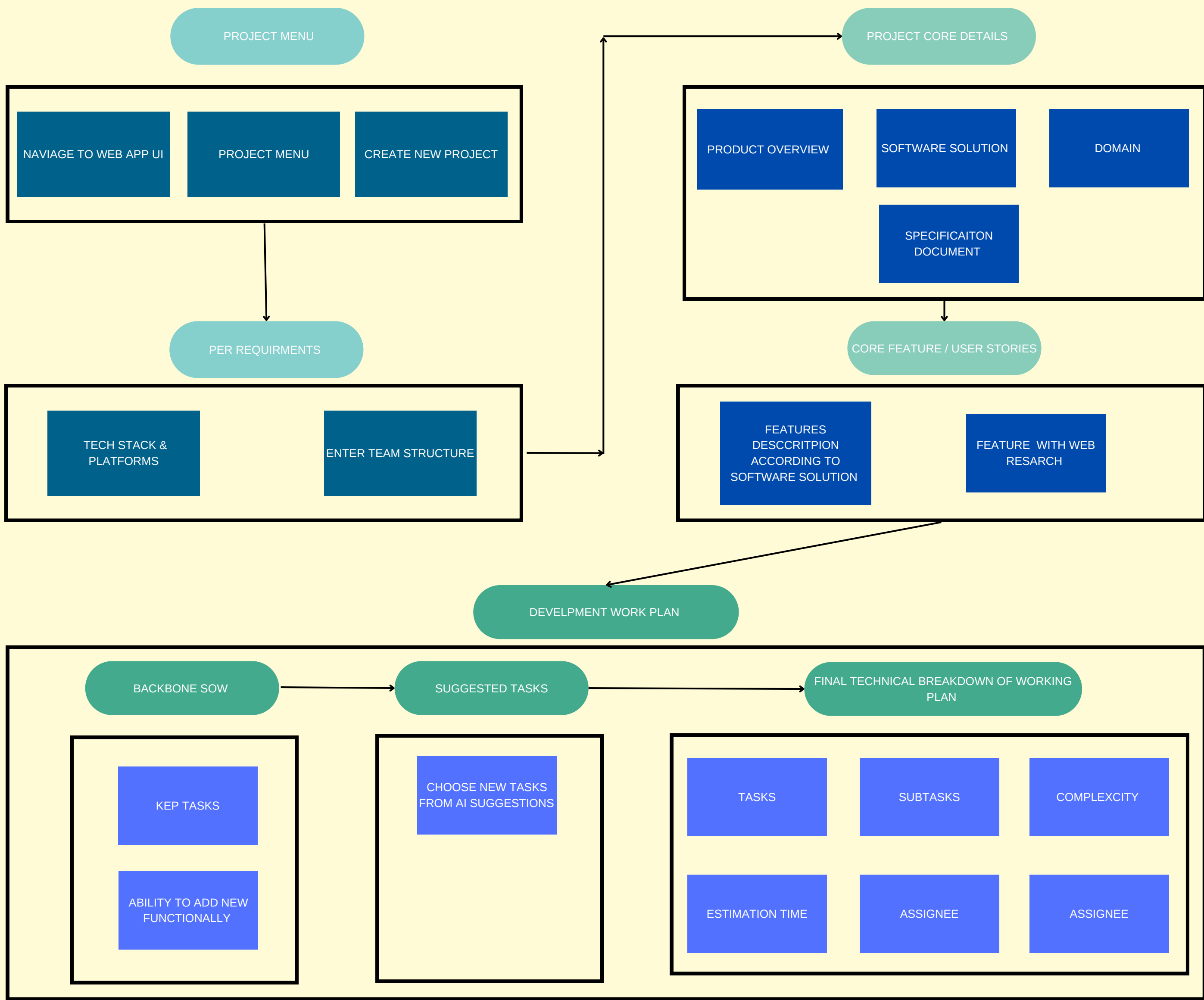
CONCLUSION

The Automated SOW web-tool is a groundbreaking advancement in project management, with a particular emphasis on streamlining software projects within RGT. Rather than being a mere tool, it's a fusion of the latest technologies, tools, and agent-based approaches. By incorporating generative AI and embedded memory, the tool comprehensively understands project nuances and crafts detailed plans. While it's tailored for RGT's specific needs, its core strength lies in its adaptability and forward-thinking design, making it a valuable asset for any modern project management endeavor.

PROJECT INFO

- Project Number - 22-0-235
- Advisor - Shahar Abramhov (RGT CTO)
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USER-FLOW



APP-FLOW

