

AImpact: Your AI co-founder. Whitepaper

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OSTOLEX

`placeholder@ostolex.com`

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Abstract

AImpact represents an AI-powered platform designed to democratize Web3 development by enabling users to create blockchain applications through natural language prompts. It eliminates traditional coding barriers, allowing users to describe their Web3 project ideas in plain language and receive fully functional applications in return. The platform's AI-driven approach reduces development time and complexity while maintaining the security and functionality expected from Web3 applications.

Keywords: artificial intelligence, Web3, blockchain, Solana, smart contracts, decentralized applications, AI-powered development, prompt-based programming, DApp generation

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1 Introduction

The rapid evolution of blockchain technology and Web3 applications has created unprecedented opportunities for innovation in decentralized systems. However, the technical complexity of blockchain development remains a significant barrier to entry for many potential innovators. Traditional Web3 development requires extensive knowledge of specialized programming languages, blockchain protocols, and cryptographic principles, often deterring creative individuals and businesses from participating in this transformative technology.

AImpact emerges as a solution to this challenge by leveraging artificial intelligence to bridge the gap between ideas and implementation. Our platform transforms natural language descriptions into fully functional Web3 applications, democratizing access to blockchain technology and enabling a new wave of innovation in the decentralized space.

This whitepaper outlines the technical architecture, capabilities, and potential applications of AImpact.

2 Userflow

The typical user flow for the AImpact platform consists of the following steps:

1. **Project Description:** Users provide a natural language description of their desired Web3 application, including functionality, features, and requirements.
2. **Application Design Generation:** The platform's AI system generates a user interface for the application. User can continuously modify the design of the application with text prompts or images.

Note: user can choose to skip this step and start developing frontend code without a design. This is useful for quick prototyping and allow user to make changes to the design more easily.

3. **Frontend Code Generation:** Based on the provided design, the AI generates the frontend code for the application. Frontend is launched in a sandbox environment, where user can test the application and modify the code either with text prompts or with a visual code editor.

Note: user can choose to skip this step and start developing smart contract code without a frontend component.

4. **Smart Contract Code Generation:** Using provided description, the AI generates the smart contract code for the application. Under the hood, the AI uses a database with default smart contracts, MCP module and LLM for fine-tuning the code for the specific application (we will discuss this in more detail in the upcoming sections). Smart contract is also launched in a sandbox environment using locally run blockchain environment, where user can test the application and modify the code either with text prompts or with a visual code editor.
5. **Testing:** Having frontend and smartcontract launched locally in the sandbox environment, user tests the application. User can also test the application in the live environment, where the smartcontract is deployed to the chosen blockchain Testnet or Devnet (frontend is still running locally in the sandbox environment).

6. **Deployment:** Upon approval, the platform:

- Deploys smart contracts to the chosen blockchain
- Hosts the frontend interface
- Sets up necessary infrastructure

3 Technical Overview