



Competitive Edge Technology  
The Human Resource Consulting Division  
Established 1994

HOLOCHAIN & WEB3 for HR - ANALYSED by  
ARTIFICIAL INTELLIGENCE

# 17.0 CITIZEN DEVELOPMENT & LOW CODE

# CONTENTS

<b>17.0 CITIZEN DEVELOPMENT &amp; LOW CODE .....</b>	<b>3</b>
17.1 Is Holochain a suitable platform for citizen developers .....	3
a) Simplicity and Accessibility .....	3
b) Modularity and Component-Based Development .....	3
c) Customizability and Tailored Solutions .....	3
d) Community Support and Resources .....	3
e) Learning Curve and Complexity .....	3
f) Maturity and Stability .....	3
17.2 Will low-code platforms and custom built prototypes play a role in the transmission of legacy applications and data to the web3 environment .....	4
a) Rapid Prototyping .....	4
b) Integration Capabilities .....	4
c) Legacy System Modernization .....	4
d) Data Transformation and Mapping .....	4
e) User Experience (UX) Design .....	4
f) Collaboration and Iteration .....	4

## 17.0 CITIZEN DEVELOPMENT & LOW CODE



### 17.1 Is Holochain a suitable platform for citizen developers

#### ChatGPT Response

Holochain has the potential to be a suitable platform for citizen developers, but several factors should be considered:

- a) **Simplicity and Accessibility:** Holochain aims to provide a user-friendly development experience and lower the barrier to entry for building decentralized applications. It provides developer tools, libraries, and frameworks to assist with application development. However, it's essential to evaluate the learning curve and accessibility of these resources to determine if they align with the skill set and capabilities of citizen developers.
- b) **Modularity and Component-Based Development:** Holochain's architecture supports modularity and component-based development. This can be advantageous for citizen developers who prefer building applications by composing and integrating pre-existing components or modules. The ability to reuse and combine components simplifies development and encourages rapid prototyping.
- c) **Customizability and Tailored Solutions:** Citizen developers often seek platforms that enable them to create customized solutions to address specific use cases or domain requirements. Holochain's architecture allows for high degrees of customization and empowers developers to build decentralized applications tailored to their needs. This flexibility can be appealing to citizen developers looking for more control over their applications.
- d) **Community Support and Resources:** Citizen developers may rely heavily on community support, documentation, and tutorials to learn and troubleshoot issues during the development process. The availability of an active and supportive developer community can greatly enhance the experience for citizen developers. Evaluating the current state of the Holochain community and the availability of resources is important to determine the level of support available.
- e) **Learning Curve and Complexity:** While Holochain aims to simplify the development process, it still involves understanding distributed systems, data integrity, and cryptographic concepts. Citizen developers with limited technical background or experience may find the learning curve challenging. Considering the complexity of Holochain and the readiness of citizen developers to tackle it is crucial to ensure a positive development experience.
- f) **Maturity and Stability:** Holochain is an emerging technology, and its maturity and stability should be evaluated. Citizen developers may prefer platforms with established ecosystems, robust tooling, and proven track records. Assessing the stability of Holochain, including its development progress, adoption rate, and stability of its APIs, is important before committing to it as a development platform.

In conclusion, Holochain can potentially be suitable for citizen developers due to its modularity, customizability, and user-friendly approach. However, it's crucial to assess factors such as simplicity, accessibility, community support, and the maturity of the platform to determine its suitability for citizen developers' specific needs and skill sets.

## 17.2 Will low-code platforms and custom built prototypes play a role in the transmission of legacy applications and data to the web3 environment

### ChatGPT Response

Yes, low-code platforms can play a role in the transition of legacy applications and data to the Web3 environment. Low-code platforms provide visual development interfaces and pre-built components that allow users to create applications with minimal coding effort. Here's how they can facilitate the transition to Web3:

- a) **Rapid Prototyping:** Low-code platforms enable the quick creation of custom prototypes by providing a drag-and-drop interface and ready-made components. This allows businesses to quickly visualize and test the transformation of their legacy applications and data into Web3-compatible formats. Prototyping helps identify potential challenges, gather feedback, and refine the migration strategy.
- b) **Integration Capabilities:** Many low-code platforms offer integrations with various systems and databases, making it easier to connect and extract data from legacy applications. This enables businesses to access and migrate their existing data to the Web3 environment, ensuring a smooth transition without the need for extensive manual coding or complex data transformations.
- c) **Legacy System Modernization:** Low-code platforms can be used to modernize legacy applications by gradually replacing outdated functionalities or user interfaces. This allows businesses to leverage their existing investments in legacy systems while gradually adopting Web3 technologies and architectures. Low-code platforms provide a flexible and incremental approach to modernization, minimizing disruption and risk.
- d) **Data Transformation and Mapping:** Low-code platforms often provide tools for data transformation and mapping, allowing businesses to convert their legacy data formats to the required Web3-compatible formats. This includes mapping data fields, handling data normalization, and ensuring compatibility with decentralized storage systems, blockchain networks, or other Web3 infrastructure components.
- e) **User Experience (UX) Design:** Low-code platforms typically offer features for designing user interfaces and experiences. This enables businesses to create modern and intuitive interfaces for their Web3 applications while considering the specific needs and expectations of their users. Improved UX design can enhance user adoption and facilitate the transition from legacy systems to the Web3 environment.
- f) **Collaboration and Iteration:** Low-code platforms often support collaborative development and iterative workflows. This enables cross-functional teams to work together in transitioning legacy applications and data to the Web3 environment. By fostering collaboration, low-code platforms facilitate knowledge sharing, rapid iterations, and faster development cycles during the migration process.

While low-code platforms can simplify the transition of legacy applications and data to the Web3 environment, it's important to consider the specific requirements and complexities of each legacy system. Some legacy applications may require significant modifications or custom integrations that may go beyond the capabilities of low-code platforms. Therefore, a thorough analysis of the legacy systems and their compatibility with the Web3 environment is necessary to determine the feasibility and approach for migration.