

Supercharging Projects with AI Augmented Software Requirements

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👋 Hi, I'm Chris Rickard



- Business analyst & Software engineer
- Previously ran a software consultancy
- Software requirements nerd
- AI enthusiast
- Founder and CEO of Userdoc - AI software requirements platform

What are Software Requirements?

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1. Blueprint of the System
2. Foundation for Development
3. Bridge Between Stakeholders
4. Long-term reference

The Cost and Impact of Poorly Defined Software Requirements



50%

Of all software projects fail
due to issues with the
software requirements

But what are issues with software requirements?



**Unclear
Requirements**



**Incomplete
Requirements**



**Misaligned
Requirements**

This visible cost of poor software requirements

Takes

60%

Longer to deliver

Costs

60%

More to deliver

Leads to

80%

More rework



\$30B

The U.S alone spends
30 billion every year fixing
software requirements
issues

This hidden cost of poor software requirements



Scope Creep



**Reduced product
quality**



**Customer
dissatisfaction**

And what happens to Software
Requirements after
implementation?

What happens to requirements after implementation?



**Become
outdated**



**Become
untrustworthy**



**Become
unfindable**

Businesses have an issue with Software Requirements



I'm confident that AI will solve this!

How can AI help build better software requirements?

1. Deep knowledge of business and context
2. Help generate software requirements
3. Allow humans-in-the-loop
4. Proactive issue detection
5. Help maintain requirements over time
6. Become the single source of truth

How could AI gain deep knowledge of business and context

Your business, and
what it does

The goals of this
specific project

Knowledge of any
constraints or
business rules

Technologies,
architecture,
integrations

The end user needs

How end users
interact with the
system

How could an AI understand this?

Your business, and what it does

Business overview

The goals of this specific project

**Project specification
document**

Any constraints or business rules

**Project management
plan**

Tech, architecture, integrations

**Technical specification,
Source code**

The end user needs

**User goals,
user frustrations**

How users interact with the system

**UI designs, sketches,
mockups**

What software requirements could AI generate?

- User personas
- Epics
- User stories
- Acceptance criteria
- Non functional requirements
- User journeys
- Test cases

Where should humans be in the loop?

- AI as an assistant, not a replacement
- A great first draft
- Full transparency and control
- Empowers collaboration
- Iterative feedback loop

How could AI help with proactive issue detection

- **Build better requirements**
 - Clear requirements
 - Complete requirements
 - Aligned with end user goals
- **Early warning system**
- **Align with compliance and standards**
- **Improved quality assurance**

How could AI help maintain requirements over time

- Easily find parts/locate information
- Facilitates making changes to existing requirements
- Adding new features to existing systems
- Helping point out duplicate information
- But understands the requirements history

Become the single source of truth

- Single point of reference
- Real-time updates
- Alignment across the board
- Learns as your project evolves
- Ask questions and "Chat with your requirements"
- Integrates with your existing tools

AI will revolutionise Software
Requirements in the coming years



In fact, it already has ...



- AI Requirements management platform
- An AI Co-pilot, to help you build better, clearer, complete, and aligned requirements
- Build an amazing first draft, allowing humans to focus on what they do best

Let's take a look...



Let's create your project

We'll guide you through describing your software, and create a new Userdoc project. If you choose to use Userdoc AI, we'll even generate user stories, acceptance criteria, personas, and journeys for your project - just like magic ✨

Although our AI is amazing, we still ask that you check for any mistakes.

[Get started →](#)

Don't have a project? No worries, Userdocs AI can help you - or take a look at our [Example Project](#)



Case study

Background



- Portable is a web application development agency
- Large team, work on many software projects
- Struggled with incomplete requirements, scattered across multiple platforms
- Hard to track changes and maintain version control
- Leading to miscommunication and costly rework

The Project



- Portable won a large scale custom CMS project
- And after trialing Userdoc, used this as the first project
- AI requirement scoping
- AI-assisted feature suggestions
- Integrated with Jira for seamless updates
- Used Userdoc for system testing

The Results



- 80% reduction in scoping time
- Streamlined client communication
- Reduced rework
- Clear version control
- Improved testing efficiency
- Long-term maintenance and onboarding

The future of AI software requirements

- Deeper, real-time business knowledge
- Continuous learning from past projects
- Code generation
- UI Design Generation
- Who knows, I would love to hear your thoughts 😊

Thank you - any questions?



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Build Better Software Requirements

<https://userdoc.fyi>