Agile and optimized methodology for VENQS

An automated, cross-platform, modules versioning managment system

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- User: Download software modules
- *Contributor*: Initialize own projects -

Package Management

- Track version and dependencies of modules
- Inter package dependency management

Automated Pipelines \bullet

- Utilizing GitLab CI/CD pipelines
- Build modules and documentation
- Autonomous testing -





- Design diagram conceptualizing the feature

- Check if existing diagrams need to change
- Implement
 - Start implementing the decisions in code
 - Update the diagrams with more details
- **Architectural Decision Record (ADR)**
 - Track key decisions of the software design
- **Design Review**
 - Check if current software design aligns with visions

Sprint Backlog	▶6 △0 + ⑧	V Sprint Task	□ 5 △ 0 + Ø
Decision on contrib directory require GUI Contributor Window VENQS Repositories Backend	d	Hint to choose an installed when creating a new modul Feature improvement GUI I #173 _, Jan 30 – Feb 26, 2	venqs package first le as a contributor Contributor Window 2025
Decide which feature of Gitlab will be accessi-		Create methode to collect doc files from mod- ules for the CICD pipeine	
SCRUM Board of VENQS			

Advantages of our Approach

Diagrams – Example: Login Window

Based on Unified Modeling Language (UML) \bullet

Formulate SMART Goals

- SMART = Specific Measurable Achievable Relevant Time-bound
- Goals formulated in a team \rightarrow Split into bite-sized tasks by developer

• Code with diagrams

- Diagrams help developers visualize and conceptualize the code
- Code is automatically documented before implementation

Keep track of important decisions with ADRs

- Utilized as a reference document on the software design
- **Review the goals after each sprint** \bullet
 - Sprint = fixed and short time frames where work is done
 - Evaluate performance in regards to software design and goals
 - Iterate: Generate new goals for the next sprint -







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Takeaway

A SCRUM workflow helps create SMART goals and evaluate

performance

Plan with diagrams before coding and automatically

document your code

Keep track of important decisions using ADR



Login

Next