AUDIT CHAIN AMOS PROJECT SS2022

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Outline

- Introduction
- Blockchain
- RabbitMQ
- Ocker
- Producer Dummy
- Consumer Dummy
- 🕡 GUI
- Testing
- Onclusion

Table of Contents

- Introduction
- Blockchair
- RabbitMQ
- 4 Docker
- 6 Producer Dummy
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- GUI
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 - and scale-out storage solutions.



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- Finally, the event will be copied in a second consumer and will be deleted from the event queue.

Here is a diagram of our work

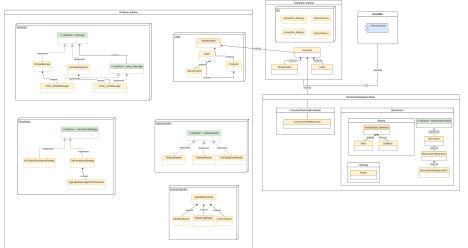


Table of Contents

- Introduction
- Blockchain
- RabbitMQ
- Docker
- 6 Producer Dummy
- Consumer Dummy
- GUI
- Testing
- Conclusion



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- It is not possible to edit the blockchain by adding or removing blocks in the middle or changing them



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- Finally, we tested our program by creating the JUnittest with a direct channel between producer dummy and consumer without the gueue.

Table of Contents

- Introduction
- Blockchain
- RabbitMQ
- Docker
- 6 Producer Dummy
- Consumer Dummy
- GUI
- Testing
- Conclusion



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- RabbitMQ is a 3rd party program that we are using as a component for queuing events.

Table of Contents

- Introduction
- Blockchain
- RabbitMQ
- Ocker
- 6 Producer Dummy
- 6 Consumer Dummy
- GU
- Testing
- Conclusion



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 - the software works better.



Table of Contents

- Introduction
- Blockchair
- RabbitMQ
- 4 Docker
- Producer Dummy
- 6 Consumer Dummy
- GUI
- Testing
- Conclusion



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- The persistence mechanism is a contingent component that stores the last data event and gets triggered in case of any failure.
- In our case, producer dummy creates the events that are then stored in the central queue which will be used later from consumer dummy.

Table of Contents

- Introduction
- Blockchain
- RabbitMQ
- 4 Docker
- 6 Producer Dummy
- Consumer Dummy
- 7 GUI
- Testing
- Conclusion



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- Consumers can approach the queue, in order to get the events and work with them accordingly. Events are recorded serially and the central event queue is transmitted via the network queue.
- In our case, after the implementation of producer dummy, our consumer dummy would use the events that are created and stored in the central queue for further processing, like storing.

Table of Contents

- Introduction
- Blockchain
- RabbitMQ
- Docker
- 6 Producer Dummy
- 6 Consumer Dummy
- 🕡 GUI
- Testing
- Conclusion



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- Users can perform any action without having to know any programming language in this friendly visual environment.
- In our project, we implemented a nice GUI and at the same time we improved the functionality of Blockchain with the following features:
 - from sequence number return the message if tempered,
 - from two sequence number return the tempered messages in that interval.
 - show how many events does the Blockchain hold,
 - show how many files does the Blockchain hold,
 - show much space the Blockchain occupies.



Table of Contents

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- Blockchain
- RabbitMQ
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- 6 Producer Dummy
- Consumer Dummy
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- Testing
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- This is done to make sure that nothing in the code is broken.
- We have JUnit Tests for the following cases:
 - JUnit Tests Producer Dummy
 - JUnit Tests Consumer Dummy
 - JUnit Tests Blockchain



Table of Contents

- Introduction
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- 6 Producer Dummy
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We had a great time together and we really enjoyed our time!















Our Dream Team







