

HAMIKA



*Team
Panda*

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Development Process

- System Requirements Specification (SRS)
- Software Development Plan (SDP)
 - Used Agile Methodology including scrum reports and bi-weekly meetings.
 - Game Prototype – Wireframes
- 3 Iterations
 - Iteration 1. Basic Game Implementation – Model Functionality.
 - Iteration 2. View (GUI) /Controller Implementation, Testing.
 - Iteration 3. Game Improvements, Adding features.



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- Programming Language: Java 14
- Code Documentation: Javadoc
- Other Languages: CSS, FXML, JSON, XML
- IDE: Eclipse 2020-09 (4.17.0)
- Version Control: GitHub
- Software Project Management: Maven
- Unit Testing: JUnit4
- UI Platform: JavaFX Scene Builder 11.0.0
- Wireframing: JavaFX Scene Builder 11.0.0
- Photo Editing: Paint 3D, Procreate
- Audio Editing : Audacity

Technologies

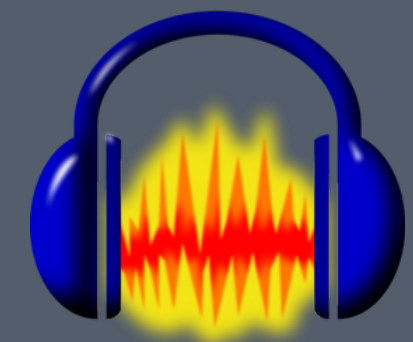


GitHub  eclipse

JUnit






 **Maven**™





Communication Tools

- Communication: Discord , WhatsApp 
- Documentation: Google Docs  Google Docs, Google Sheets  Google Sheets
- Presentation: Canva 
- Backup: Google Drive , GitHub 



Design Patterns

- Main Architecture: Model-View-Controller (MVC)

- Singleton

- Factory Method :

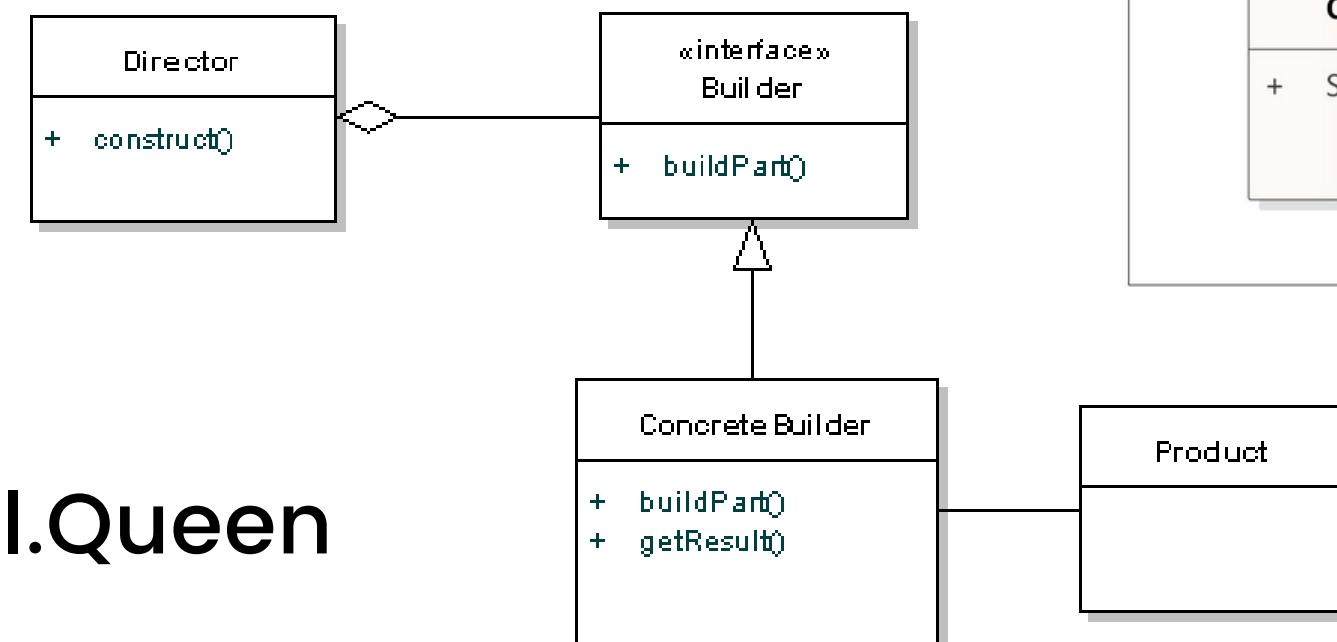
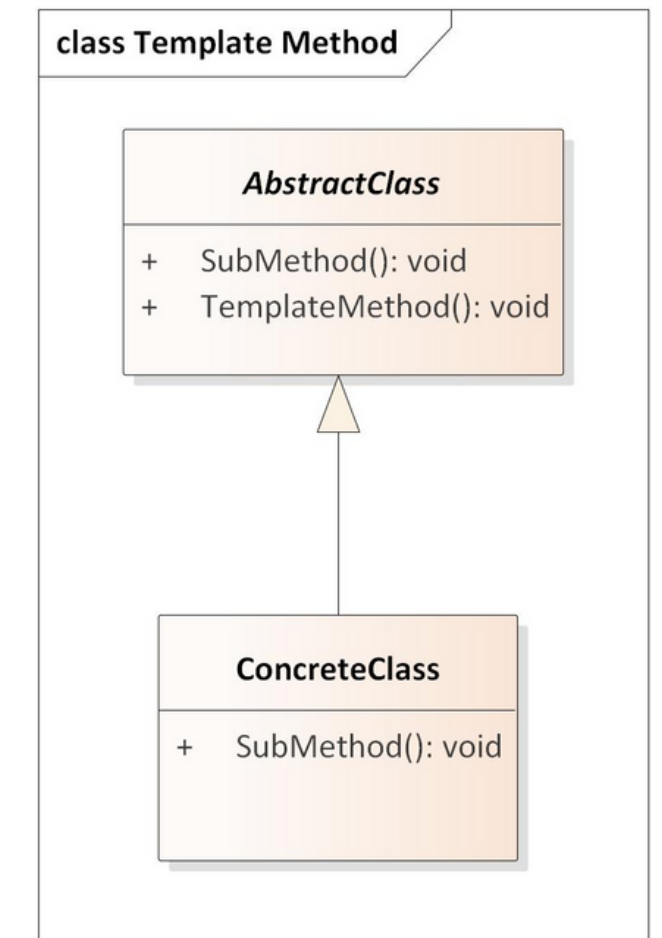
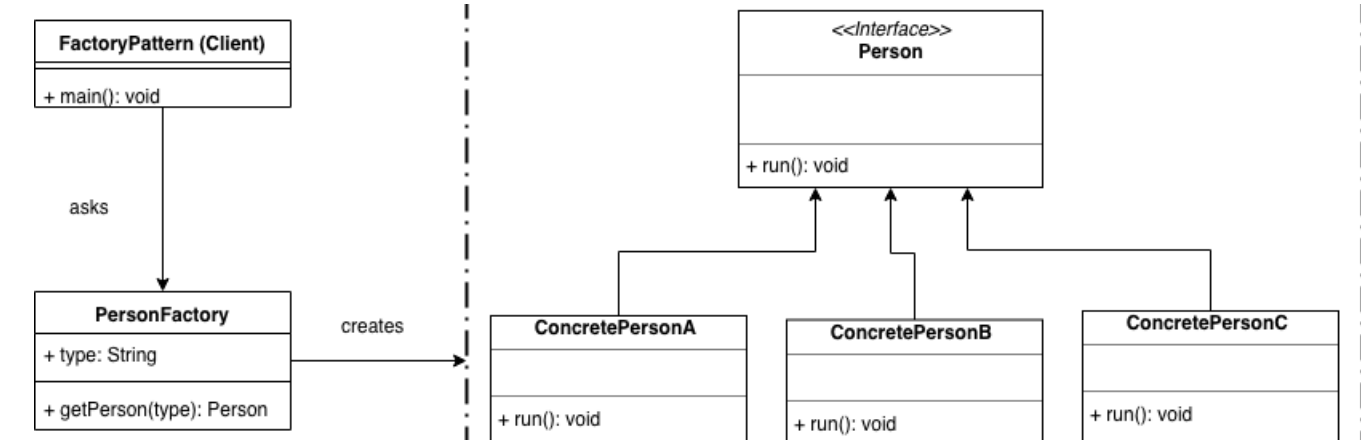
@ Model.ColoredTilesFactory

- Builder : @Model.Tile,Model.YellowTile,Model.BlueTile

- The Template Pattern:

Abstract Class @Model.Piece,

Concrete Classes @Model.Soldier,Model.Queen





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Challenges We Faced





- GitHub Conflicts!
- Javadoc Warnings And Errors : they're to many
- Scene Builder crashing every 5 seconds
- Music And Mute
- GUI Bugs
- Colored Tiles And Its Bugs







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But Mainly This ↓






























Total Time: 00:06:42  

 **Player 1**
Points: 180

VS 00:14

 **Player 2**
Points: 242



	A	B	C	D	E	F	G	H
8								
7								
6								
5								
4								
3								
2								
1								
	A	B	C	D	E	F	G	H

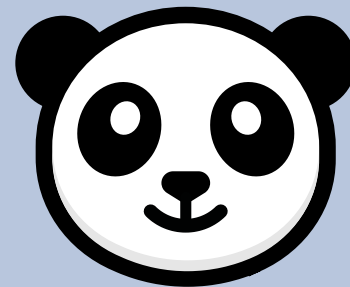
Despite all the hurdles we learned alot :



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- Teamwork makes the dream work
- Testing was something new to all of us
- Version Control is a champion
- Working in synchronization
- Patience
- Managing And Organizing is vital!

**WE GIVE THANKS TO THE
COURSE'S STAFF FOR
SUPPLYING US WITH THE
TOOLKIT TO BUILD HAMKA**



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