

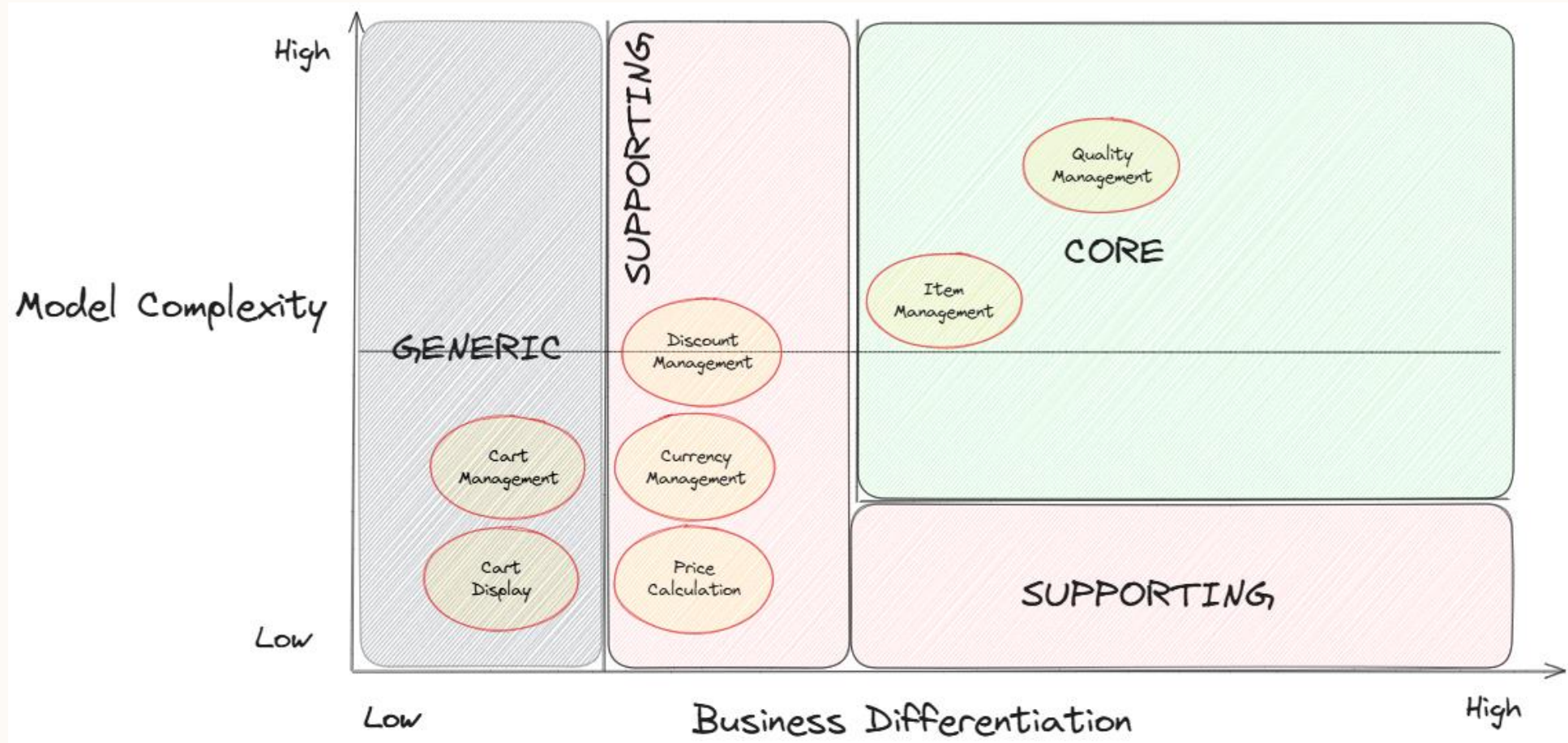
FINAL PROJECT

**HANIFL, PETRUSIC,
ZULLASH**

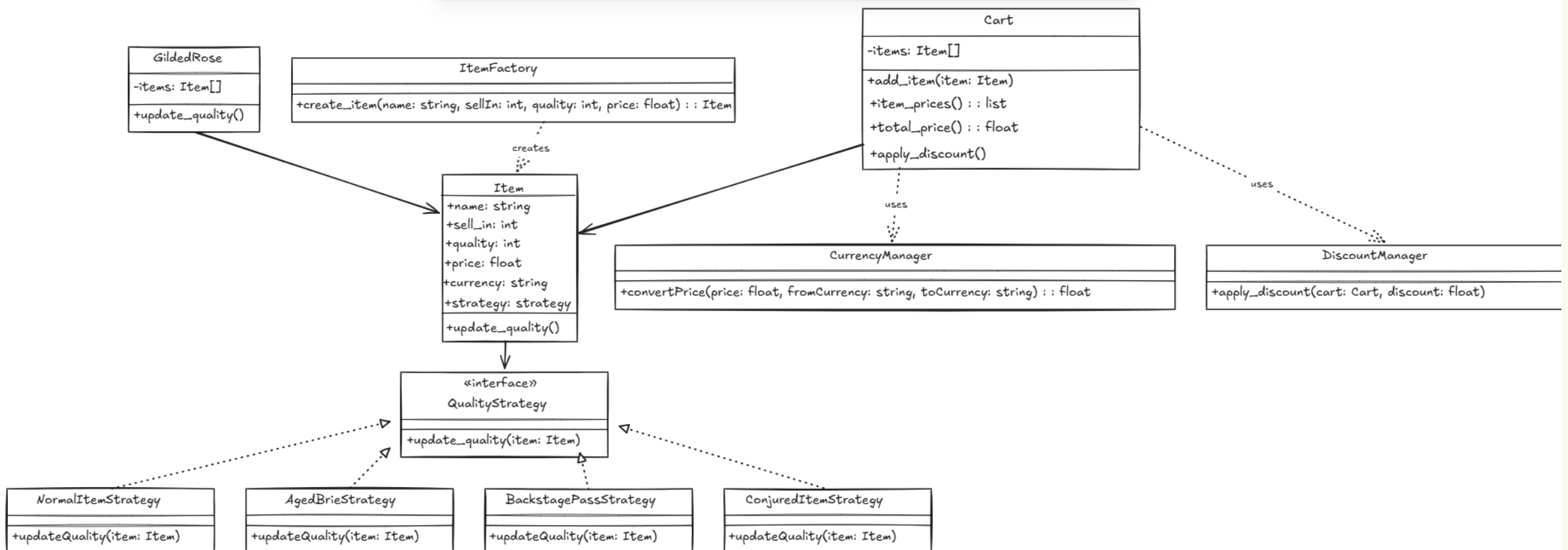
GITHUB REPO

<https://github.com/svfwan/Gilded-Rose-Project>

CORE DOMAIN CHART



STRUCTURE DIAGRAM



BENEFITS OF SOLUTION

- **Modular and Extensible**
 - Strategy Pattern for quality updates and Factory Pattern for item creation → solution is modular, easy addition of new item types or pricing, ensures scalability and longevity
- **Support for Further Discount Strategies**
 - Discount manager enables flexible pricing models (such as bulk discounts or other types if needed) → can easily be further extended with i.e., Strategy Pattern
- **Separation of Concerns**
 - (Almost) Each domain has its own class and responsibility (e.g., Cart, CurrencyManager, DiscountManager) → makes the solution easy to maintain and improves readability
- **Improved Testing and Debugging**
 - Modular components with distinct responsibilities (e.g., quality management, currency conversion) allow for isolated unit testing → higher code reliability and simplifies debugging

**THANK
YOU**