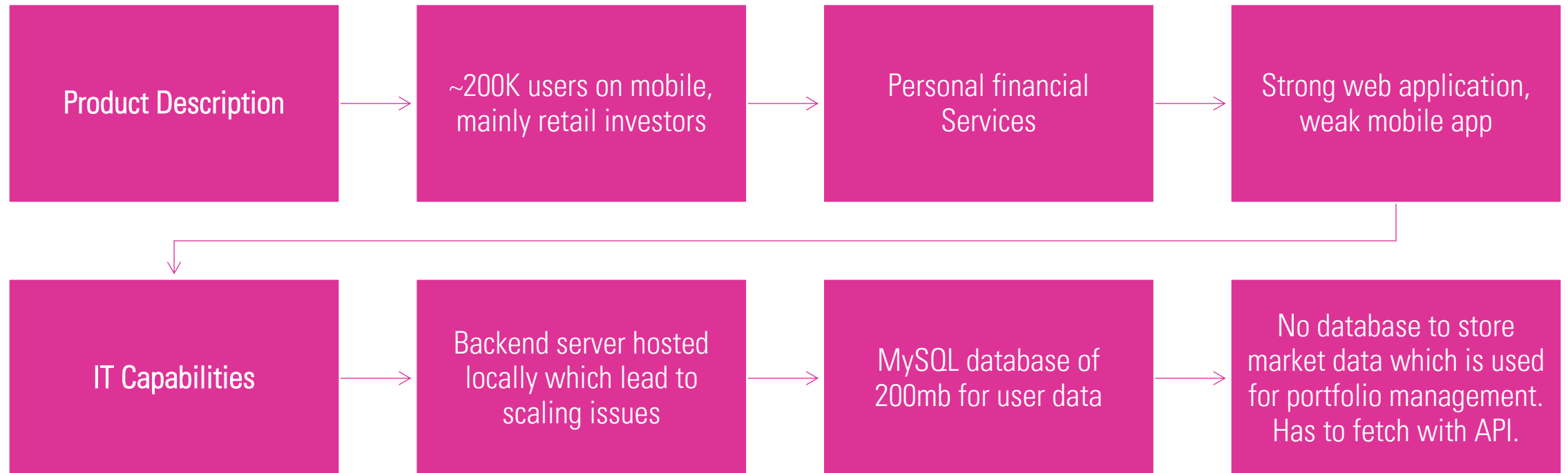


GAI TIANYUE

DEVOPS PROJECT 1



COMPANY DIAGNOSIS



COMPANY DIAGNOSIS

Team

- Simon Quek, CEO, has the expertise and experience in the finance industry, but needs to embrace tech transformation more.
- Edmund Toh, Head of IT & Operation, prefers using local server.
- Carol Ong, Head of Product and Interim Head of Engineering, a recent member of the company. has vast experience in the Tech industry.
- Jayson Lim, Lead Developer and lead engineer, the only person who can troubleshoot production outages.

Value Proposition

- “Helping people to improve their financial lives by delivering exceptional financial-management products”



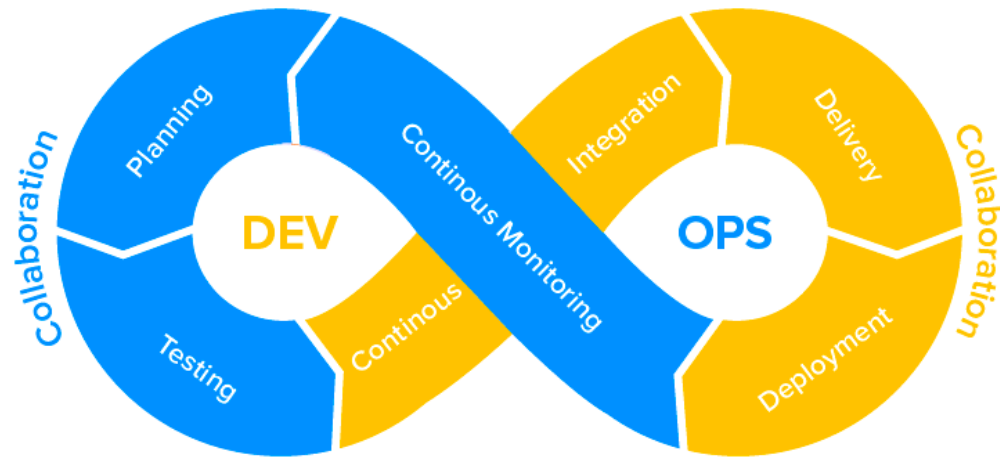
COMPETITOR ANALYSIS

- Mint – The Swiss army knife of personal finance management
- **A variety of target Platform:** web, Android, IOS (including the Apple Watch App)
- **High-security:** account linked to bank cards and other personal information.
- **Real Time Synchronization:** By aggregating the data from a user's bank account with guided financial suggestions and investments, it can easily manage finances in real time.

DevOps Solutions

Benefits: Accelerating Software Delivery by bridging the gap between development and operation teams.

- **Continuous Deployment** to automate repetitive tasks and focus more on actual testing thereby improving the company's overall productivity.
- **Continuous Integration** of code into a shared repository several times a day with each check-in then verified by an automated build allows team to detect problems early.



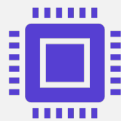
MOVING TO CLOUD



Consider moving their services to cloud e.g Amazon Web Services (AWS).



Gain elasticity and flexibility compared to data center.



Reduced operational costs by not needing to spend time and money tuning IOPS. Data-management should not be a chore, more resources should be put to delivering better financial services.



Provides security for 50 TB of financial data.

IMPROVEMENTS FOR FINANCIAL SERVICES

- Portfolio Optimization with Python Packages which considers different portfolio balancing strategies (%-of-Portfolio, CPPI etc.)
- Bloomberg Real-time Data Feed for the latest financial data, order flow information, industry statistics etc. Additional Alt Data Feed if firm is doing complex strategies
- C++ Trade Execution to take advantage of high-volume asset movements for the best bid- ask offers.
- To mitigate technological Risks. Build the technology on a scalable technology, i.e. Kubernetes, in order to successfully onboard users without crippling the entire platform.