

Investment Policy Statement Generator

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About Our Team...

- Client: AccuTech Systems Corporation
 - Trey Gourley – Lead Software Architect
 - Matt Garrett – Product Manager

Mentor: Evan Knapke

Members: Colin, Janardhen, Spencer, Kaleb

What is an IPS?

An **investment policy statement** is a document used by an investor and a investment manager to detail and record how the investors money is to be managed and used.

Business Requirements

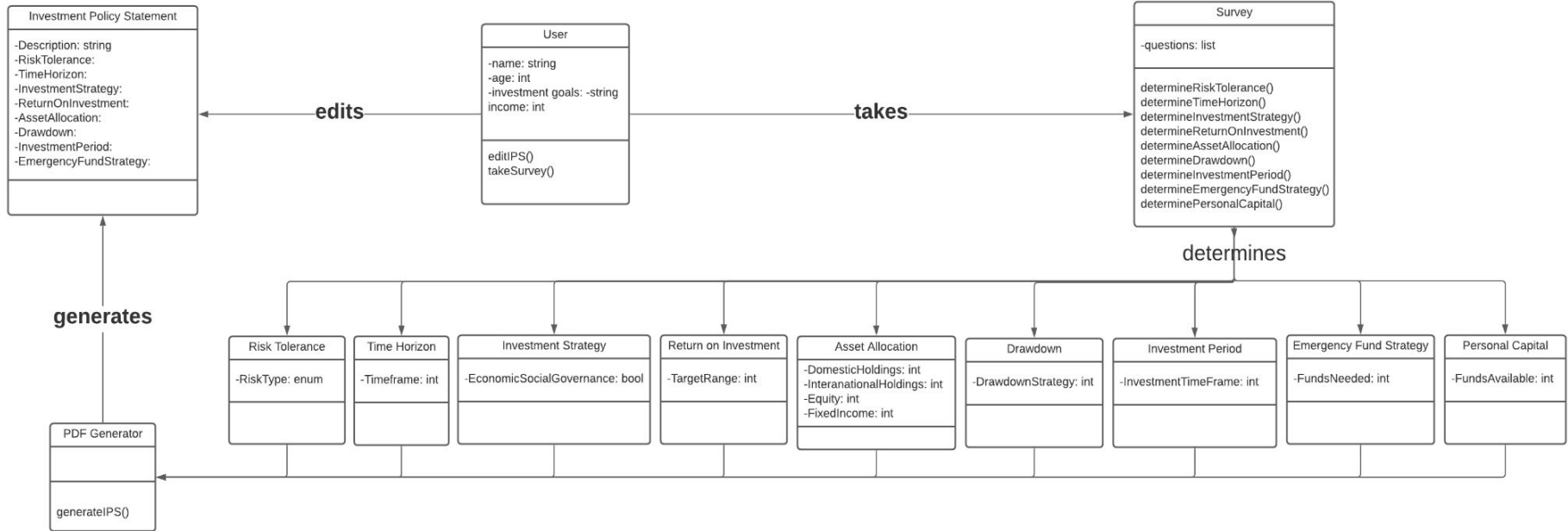
Business Requirement One:

- Work with AccuTech to research and implement a service to collect and store required information from an investor to automatically generate a PDF version of an IPS.

Business Requirement Two:

- Despite our initial target platform being PC, design the software with the potential of being utilized on a mobile device.

Domain Model



Use Cases

These use cases are for investors who will be interacting with our frontend to generate an Investment Policy statement.

- UC1: Risk Tolerance Survey Investor will complete a risk tolerance survey to estimate risk tolerance in the portfolio.
 - Why?: this is a use case because an IPS needs an estimate of risk to determine which securities to invest in
 - Actors: Investor
 - flow: login -> risk tolerance survey
 - business req's: B1
- UC2: Obtain a pdf of the portfolio plan Investor will obtain a complete pdf of the finished investment policy statement.
 - Why?: The Investor needs to sign the document in order for the investment policy statement to be valid. Therefore the Investor must be able to obtain a pdf copy of the ips
 - Actors: Investor
 - flow: login -> risk tolerance survey -> objectives -> strategy -> obtain pdf
 - business req's: B1
- UC3: Investment Objectives Investor will be prompted to enter an objective for the portfolio
 - Why?: The main function of an ips is to ensure that the portfolio is meeting the Investment objectives, so they must be specified.
 - Actors: Investor
 - flow: login -> risk tolerance survey -> objectives
 - business req's: B1

Our TechStack

Backend: Dotnet C

Frontend: Vue

Environment: Vscode

AccuTech Cheetah™

AccuTech Moneytree

Hxviewer

Functional Requirements

- **FR1** Risk tolerance questionnaire (**High**)
- **FR2** Account overview (**High**)
- **FR3** A questionnaire that asks the user about the following information: (**High**)

Terms	Terms (Continued)
Risk Tolerance	Asset allocation
Time horizon	Emergency fund strategy
Investment period	Drawdown
Investment strategy	Personal capital
Return on investment	

- **FR4** Output investment policy statement as a PDF file (**High**)
- **FR5** Mobile version (**Low**)

Non-Functional Requirements

- **NR1:** Should not use more than 1GB ram at any point (**High**)
- **NR2:** Present a PDF document to the user in less than 10 seconds after confirming that the IPS is complete (**Medium**)
- **NR3:** Must be able to handle the same number of users as Cheetah (**Medium**)
 - (We don't know exact numbers due to NDA processing delays)
- **NR4:** Our UI should be consistent with upcoming changes to standardize AccuTech's UI appearance and layout. (**Medium**)
 - (Details TBA due to NDA)

First Iteration Features

R1: User will be able to describe the objective of the asset pool.

User can have multiple objectives in a checklist-like format.

R2: User will go through a risk tolerance survey to determine how the software will calculate the risk tolerance.

Questions will be asked of the user

background, future, volatility, stock/bond, scenario questions to determine risk tolerance.

Our Prototype

Video link: [Prototype @youtube](#)

Figma link: [Prototype @figma](#)

Mentor Feedback

- Evan Knapke – BSU student last year, was hired on at AccuTech.
- Liked our TechStack (we should use what AccuTech already uses)
 - Did note that AccuTech uses Vue, so we should too (rather than Blazor like we mentioned)
- Thought we were well prepared for the meeting.

Client Feedback (Discovery Meeting)

- Assured us that we were not working alone; we should ask questions!
- They will help us with domain-specific terminology
- They will guide us the questions to be on the IPS
- They liked the amount of questions we asked and appreciated our efforts to do some learning prior to the meeting.

Client Feedback (Design Meeting)

- Clients liked everything we presented, but they had the following feedback:
 - Trey mentioned that our UML model could be expanded upon, and he'd help us with that once they could show us the inner workings of their tools (NDA prevented this).
 - Matt mentioned that our first iteration features looked more like a requirement list (and looked too ambitious). He suggested that we just stick to one or two features.

We ended off the session by setting plans in place to have a weekly meeting.

We also reviewed various financial terms and their connections with each other.

