

Background Information

Scenario

Endothon Finance is a loan servicing company specializing in loans for small businesses wishing to expand or improve their operations. Recent changes to Endothon Finance's loan application process necessitated the launch of a new applicant-facing web app. Businesses applying for a loan through Endothon Finance interact with the web app, experiencing a streamlined process with customized loan application requirements based on core details (e.g., business age, industry, number of employees). The information collected during this process is used by Endothon Finance to construct a loan profile of each business, which is shared with a list of partnered lending vendors. The automation of both the web app's logic-based requirements and the dissemination of the loan profile to potential lenders allows quicker processing of loan applications.

Endothon Finance requires business applicants to provide their previous five years of financial data to determine qualification status. The web app was intended to request financial data for the five most recently completed fiscal years of a business, disregarding the current year. If a business was created less than five years ago, the web app logic should adjust and instead request the most current years in business and a forecast for the remaining future years. For example, if a business was established in 2000 and the current year was 2023, then the web app should request historical financial data from 2018, 2019, 2020, 2021, and 2022. Alternatively, if a business was established in 2020 and the current year was 2023, then the web app should request historical financial data from 2020, 2021, and 2022, as well as projected financial data from 2023 and 2024.

An internal ticket has been prioritized due to unexpected results in the new web app. Loan profiles created by the web app are being returned with the first five fiscal years of financial data as opposed to the five most recent years. For example, if a business was established in 2000 and the current year was 2023, then the web app is incorrectly requesting historical financial data from 2000, 2001, 2002, 2003, and 2004. As the software developer, you have been tasked with providing a software design and quality assurance plan to address the ticket and ensure expected behavior.



Ticket

Update loan application logic

TICKET # D480-AEN1

<div>Details</div> <div>Type: <div>• Bug</div></div> <div>Priority: <div>↑ Medium</div></div> <div>Status: <div>TO DO</div></div> <div>Resolution: Unresolved</div>	<div>People</div> <div>Assignee: Software Developer</div> <div>Assign to me</div> <div>Reporter: Program Manager</div> <div>Assigned Group: Web App Team</div>
<div>Department</div> <div>Vendor Relations</div>	<div>Dates</div> <div>Created: 2 hours ago</div> <div>Updated: 1 hour ago</div>
<div>Description</div> <div>Loan profiles are being returned with the first five fiscal years of financial data as opposed to the five most recent years. For example, if a business was established decades ago in 2000, then the new web app is incorrectly requesting historical financial data from 2000, 2001, 2002, 2003, and 2004. It is believed that the web app’s logic needs to be examined and updated to return expected results. The specifications relevant to this issue are listed below:</div> <div><div>The loan application process requires financial data for the five most recently completed fiscal years of a business, disregarding the current year. The web app is intended to automatically identify the specific years of financial data being requested based on the following:</div><div><div>AC1 – User will be presented with fields of the most recent years when the business created date is older than five years.</div><div>AC2 – User will be presented with fields for current and future forecast years if the business created date is within the last five years.</div></div></div>	

