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Fresh News 2.0

Financial Analysis Report

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Document History

DATE	VERSION	NAME	NOTES
2024-07-15	1.0	PEDRO	Initial version.

Overview

The purpose of this Financial Analysis Report is to evaluate the economic impact and return on investment (ROI) of developing and deploying a Robotic Process Automation (RPA) solution for a process called **Fresh News 2.0**, which scrapes a news website and creates an excel file with the ingested contents.

Costs Analysis - Assumptions

This analysis is based on a development phase assigned to a single senior Python developer.

The development phase took 22 hours, distributed as follows:

1. 1 hour: Initial comprehension.
2. 3 hours: Acquaintance with the required library (Robocorp's RPA framework for Python);
3. 3 hours: Environment setup (Robocorp account, VScode Plugin, Workspace, Github repo and CI/CD/Integration with Robocloud)
4. 11 hours: Main development;
5. 2 hours: Testing;
6. 2 hours: Compilation of Process Definition Document and Financial Analysis Report (this document).

Note: For the challenge purposes, it is assumed the developer salary is US\$ 81.000 p.y., based on the lower end statistics I could find on Glassdoor, which states a Python developer's wage ranges between US\$ 81.000 and US\$ 114.000 p.y.

The process as-is is assumed to be executed by an administrative assistant, performing it manually once a week, taking 3 hours to complete.

Note: For the challenge purposes, it is assumed the assistant's salary is US\$ 39.000 p.y., based on the lower end statistics I could find on Glassdoor, which states their wage ranges between US\$ 39.000 and US\$ 57.000 p.y.

Costs Analysis - Calculations

Development costs:

Annual Salary: \$81,000 p.y.

Hourly Rate: $\$81,000 / (52 \text{ weeks} * 40 \text{ hours}) \approx \$39/\text{hour}$

Development Time: 22 hours

Development Cost: $22 \text{ hours} * \$39/\text{hour} = \858

Administrative Assistant Cost Savings:

Average Salary: \$39,000 p.y.

Hourly Rate: $\$39,000 / (52 \text{ weeks} * 40 \text{ hours}) \approx \$19/\text{hour}$

Monthly Time Saved: 12 hours

Monthly Cost Savings: $12 \text{ hours} * \$19/\text{hour} = \228

Annual Cost Savings: $\$228 * 12 \text{ months} = \$2,736$

Return over Investment

$\text{ROI} = \text{Net Profit} / \text{Cost of Investment}$

Net Profit: $\text{Annual Cost Savings} - \text{Development Cost} \rightarrow \$2,736 - \$858 = \$1,878$

Cost of Investment = Development Cost = \$858

$\text{ROI} = \$1,878 / \$858 = 2.18 = 218\%$

Break-even time

$\text{BET} = \text{Cost of investment} / \text{annual cost savings}$

$\text{BET} = \$858 / \$2,736 = 3,7 \text{ months}$