R(P)Aban : Process for Robotic Process Automation Projects K.V. Jeeva Padmini, R. K. O. H Silva, H.M.N. Dilum Bandara, and G.I.U.S Perera

ABSTRACT

Advancement of the software industry and artificial intelligence made the way to Robotic Process Automation (RPA). Business processes with structured, rule-based, and repetitive tasks that produce definitive outputs are candidates for automation using RPA. RPA improves accuracy and productivity while reducing cost. However, still, the industry fails to identify a suitable RPA delivery approach, and 30% - 50% of the RPA projects fail due to unmatched delivery approach. In this paper, we propose an RPA delivery approach named R(P)Aban. R(P)Aban is derived based on an extensive study of RPA implementations by a multinational, service-based organization. We identified the best fit RPA delivery approaches based on a set of interviews with the RPA implementation teams. The proposed framework could be used to reduce RPA project failures, as well as improve the project performance while reducing the cost.

OBJECTIVE

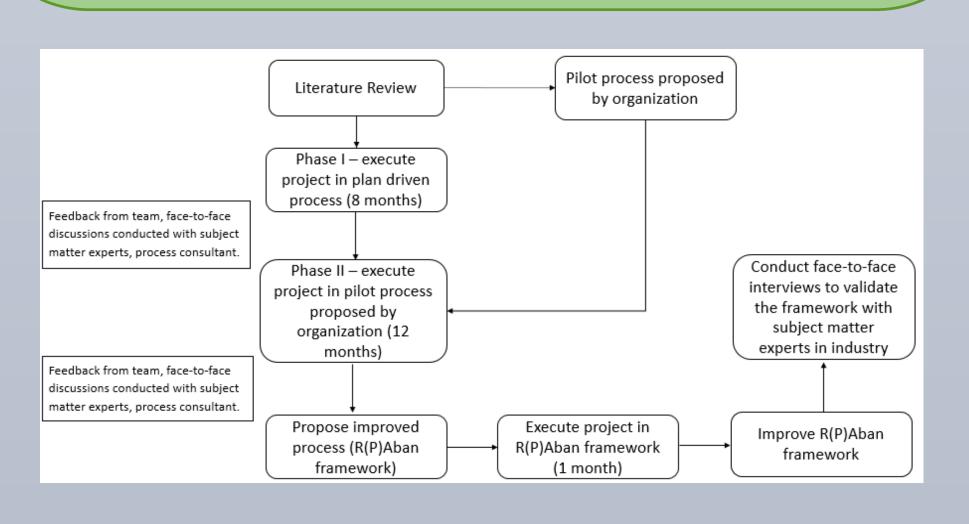
Identify best-fit process for Robotic Process Automation project.

PROBLEM STATEMENT

What is the best-fit process to execute RPA projects with high quality, productivity, and efficiency while minimizing cost?

METHOD

- Both the vendor and client are new to RPA implementation.
- No existing study for R(P)A process.
- Vendor is multinational service base software development organization.
- Research conducted for a project in banking domain and introduce bots to market operations in banks to drive operations by RPA and cognitive computing.
- RPA in the bank is to reduce the manual effort involved in the process.
- Also to release subject matter experts' bandwidth to improve overall efficiency and to develop a cognitive framework to automate the processing of unstructured data in the business process.
- RPA tool provider for the project is 'WorkFusion'.
- Below image illustrated the research methodology.



Research Methodology

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- Testing (UAT) phase.

- times during bot development.

