

**PROCESS DESIGN DOCUMENT (PDD)
FOR THIRUKURAL PROJECT**

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I. INTRODUCTION

The document describes the sequence of steps performed as part of the business process, the conditions and rules of the process prior to automation and how they are envisioned to work after automating it, partly or entirely. This specifications document serves as a base for developers, providing them the details required for applying robotic automation to the selected business process.

The business objective provided by the business process owner is to automate the srirangam info web page ('<https://srirangaminfo.com/thirukkural.php>') to extract the 1330 thirukkural in both languages (Tamil & English) with explanation and send one kural with explanation per day using mail.

The benefits expected by the Business Process Owner after automation of the selected business process are:

- i. Automating repetitive task and reduce processing time by significant amount helps to minimise the work load.
- ii. Better monitoring of the overall activity by using the logs provided by the robots.
- iii. Considerable reduction of FTE.

II. KEY CONTACT

The specifications document includes concise and complete requirements of the business process and it is built based on the inputs provided by the process **Subject Matter Expert (SME)/ Process Owner**.

The **Process Owner** is expected to review it and provide signoff for accuracy and completion of the steps, context, impact and complete set of process exceptions. The names have to be included in the table below.

Role	Name	Contact Number (e-mail, phone number)	Notes
Process SME/Reviewer	Naresh Kumar	naresh.kumar@e5.ai 9840539507	Point of contact for questions related to process details.
PDD Owner	Aarti A K	aartiak.e5@gmail.com 8883648289	Point of contact for questions related to PDD.
Process Owner	Sankaraveni M	sankaravenie5@gmail.com 8778753136	Point of contact for questions related to process details & exceptions.
Process Developer	Sharon Gifta G	sharongiftae5@gmail.com 8838982091	Point of contact for questions related to sending mail workflow file and Trigger setting.
Process Developer	Aarti A K	aartiak.e5@gmail.com 8883648289	Point of contact for questions related to Integration workflow.
Process Developer	Sorna Lakshmi D	Sornalakshmie5@gmail.com 9363280120	Point of contact for questions related to selecting specific athigaram workflow file and exception handling.
Process Developer	Prasanth M	prasanth9534@gmail.com 7010564832	Point of contact for questions related to configuration workflow, maintaining config file as

			well as input excel file and exception handling.
Process Developer	Naren Bagavathy	narenbagavathye5@gmail.com 7604893150	Point of contact for questions related to extracting kural with explanation from website workflow file.
Process Developer	Sankaraveni M	sankaravenie5@gmail.com 8778753136	Point of contact for questions related to manipulation of kural as per need workflow file.

III. PROCESS OVERVIEW

General information about the process selected for RPA prior to automation.

#	Item	Description
1	Process full name	Thirukural project to send each kural per day.
2	Process Area	Organisation moral mail – Daily Thirukural
3	Department	n/a
4	Process short description (operation, activity, outcome)	Automated the srirangam info web page (‘https://srirangaminfo.com/thirukkural.php’) to extract the 1330 thirukkural in both languages (Tamil & English) with explanation and sent one kural with explanation per day using mail.
5	Process schedule and frequency	Daily, Once, 10 am, Excluding non-working days – sundays, second Saturdays, Govt holidays.
6	# of items processes /reference period	1/ day
7	Average handling time per item	3 min
8	Peak period (s)	n/a
9	Transaction Volume During Peak period	n/a

10	Total # of FTEs supporting this activity	3
11	Expected increase of volume in the next reference period	n/a
12	Level of exception rate	Medium
13	Input data	Athigaram – 133, Input Excel file containing (Date, Kural No, Kural, Kural Explanation)
14	Output data	Kural content in queue.

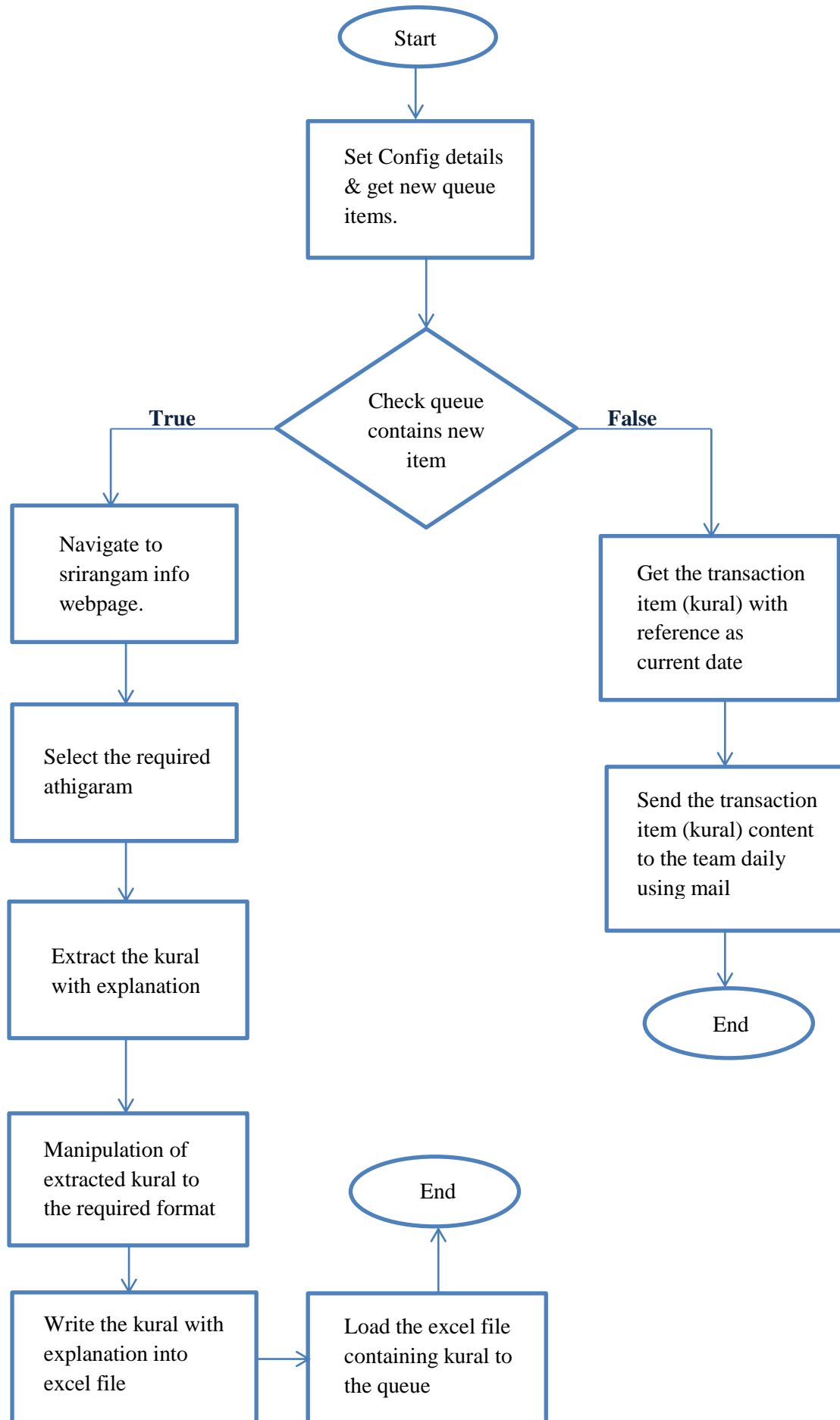
*Used "n/a" for the items which does not apply to the selected business process.

IV. APPLICATIONS USED

The table includes a comprehensive list all the applications that are used as part of the process automated, at various steps in the flow.

#	Application Name	System Language	Client Type	Environment
1	Srirangaminfo	English	Thick client	Web browser
2	Excel	English	Thick client	Windows Application
3	Gmail	English	Thick client	Web Application

V. AS – IS WORKFLOW DIAGRAM



VI. PROCESS STEPS

DISPATCHER WORKFLOW:

- 1) Open the srirangam info website to extract thirukural with its explanation.
Srirangam info website link → <https://srirangaminfo.com/thirukkural.php>
- 2) Choose the appropriate athigaram from the drop down.
- 3) Extract the Kural under each athigaram.
- 4) Extract the Kural explanation in both Tamil and English for each Kural.
- 5) Manipulate the kural content as per the required format.
- 6) Increments the dates for each extraction which will be useful as reference.
[Note: Excluding non-working days – sundays, second Saturdays, Govt holidays]
- 7) After extracting the first 10 kural from the first athigaram switch to the next athigaram.
- 8) Repeat the steps 2,3,4,5 until it reaches the last kural to fetch.
- 9) After fetching 1330 kurals write the kurals into excel file containing fields such as date, athigaram, kural no, kural, kural explanation.
- 10) Load the Thirukural file into the queue.

PERFORMER WORKFLOW:

- 1) Get the new transaction item as per the reference as current date.
- 2) Send the thirukural using email everyday with respect to reference date.
 - 2.1 Subject of the email should be (“Athigaram - kural 1”).
[Note: Number of kurals will be updated daily in subject.]
 - 2.2 Body of the content should contain the kural with its Tamil and English explanations.
- 3) Send the email to the organisation team:
From address → sankaravenie5@gmail.com

To address → sharongiftae5@gmail.com

aartiak.e5@gmail.com

sornalakshmie5@gmail.com

myprashanth97@gmail.com

narenbagavathye5@gmail.com

sathyamoorthie5@gmail.com

alagappan.m@e5.ai

naresh.kumar@e5.ai

dharani.ravindranathtagore@e5.ai

lakshmi.n@e5.ai

muthukumarsekar1986@gmail.com

- 4) Set the transaction status to success or failed with respect to whether mail send or not.

VII. EXCEPTION HANDLING

The table below reflects all the errors identifiable in the process evaluation and documentation.

For each of these errors or exceptions, define a corresponding expected action that the robot should complete if it is encountered.

#	Exception Name	Exception Type	Actions to be taken
1	Athigaram dropdown doesn't exist.	System Exception	State the exception in log message.
2	Page not found	Application Exception	State the exception in log as 'Page not found. Please try again later'.
3	Delimiter not found	Business Rule Exception	State the exception in log as 'Splitting cannot be performed since the delimiter is not available'
4	Orchestrator server down	System Exception	State the exception in log as 'Asset/Queue can't be reached. Please try again later'.
5	E-mail To Address not valid	Business Rule Exception	State the exception in log as 'The given Email Format is Incorrect'.
6	E-mail credentials not valid	System Exception	State the exception in log message.

VIII. REFERENCE

- The automation of Thirukural project discussed in this PDD is considered to be the first version (version 1.0).
- The website link is provided by the Business Process Owner as link → <https://srirangaminfo.com/thirukkural.php>
- Refer details provided by Business Process Owner, if any clarifications required contact Business Process Owner → Name → Sankaraveni M
e-mail id → sankaravenie5@gmail.com
Phone no → 8778753136