

Group switching BPMN

flow objects:

activities (represent tasks or steps that need to be performed)

Sign up

Sign In

Add Current Tutorial Group

Add Current Lecture Group

Add Destination Tutorial Group

Add Destination Lecture Group

Add English Level/s and German Level/s

Upload Schedule

Search Schedules

Find Available Potential People

View Request

Show Contact

events (represent points in time or triggers that affect the flow)

Delete User

Accept Request

Ignore Request

Post Request

Remove Request

Resolve Request

gateways (represent decision points or branching conditions.)

Check if user in probation

Check If user has the same prefix in ID as of the other potential switch

Check If user want to enter schedule data manually or upload schedule in excel format.

Challenges

1- concurrently handling request

2-upload Schedule as excel sheet and accessing and Schedule handling files as inert at same time to prevent file upload vulnerability

3-handling ignored request

4-Variable Workload: Sites may experience varying workloads at different times, such as peak and off-peak periods. Creating a schedule that optimally allocates resources based on these fluctuations can be complex.

5-Resource Allocation: Efficiently allocating resources, including personnel and equipment, to different sites requires careful planning. Ensuring that each site has the necessary resources at the right time is crucial for smooth operations.

6-Communication and Coordination: Coordinating activities across multiple sites demands effective communication.

Ensuring that all stakeholders are informed and aligned with the schedule can be challenging, especially if there are language barriers, time zone differences, or other communication obstacles.

Analysis/flows:

first activity if the user has not account he has to sign up using email address , phone number ,user name and password , if he has account then he has to sign in using mail or user name or phone number and password , then user either enter upload his schedule and desired schedule in excel format or enter data manually (Add Current Tutorial Group , Add Current Lecture Group, Add Destination Tutorial Group ,Add Destination Lecture Group , Add English Level/s and German Level/s) then data is saved , then user can search schedules or Find Available Potential People , the user can send request (Post Request) to the Available Potential People , the recipient user can View Request then the recipient user can Accept or Ignore Request or Remove Request and the system Resolve Request based on user acceptance or removing or ignoring and if the one of user in probation , the recipient user can Show Contact of the sender user.

Benefits:

- 1-focus on business needs
- 2-make sure everyone on same page stakeholders including business analysts, software designers, and developers
- 3-describe, analyze, and communicate business processes and workflows.
- 4-help ensuring expected functionality