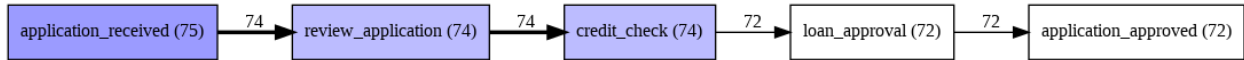
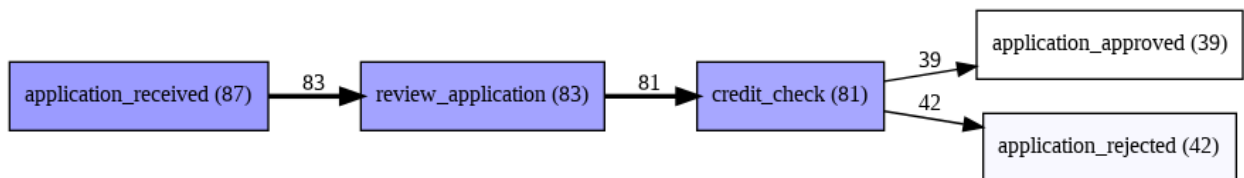


# Normal Scenarios

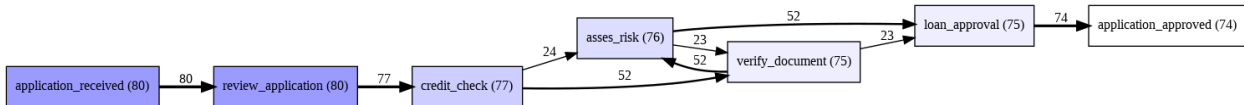
## Sequence



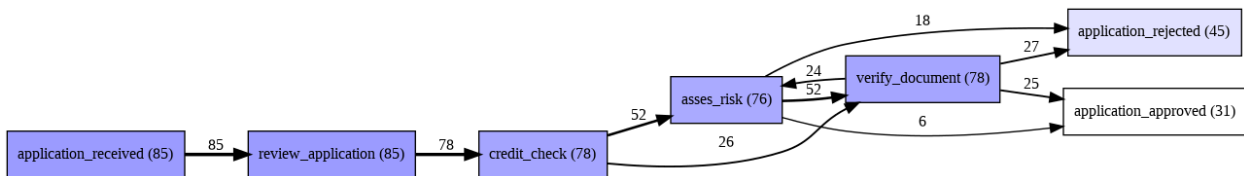
## Choice



## Parallel



## Mix

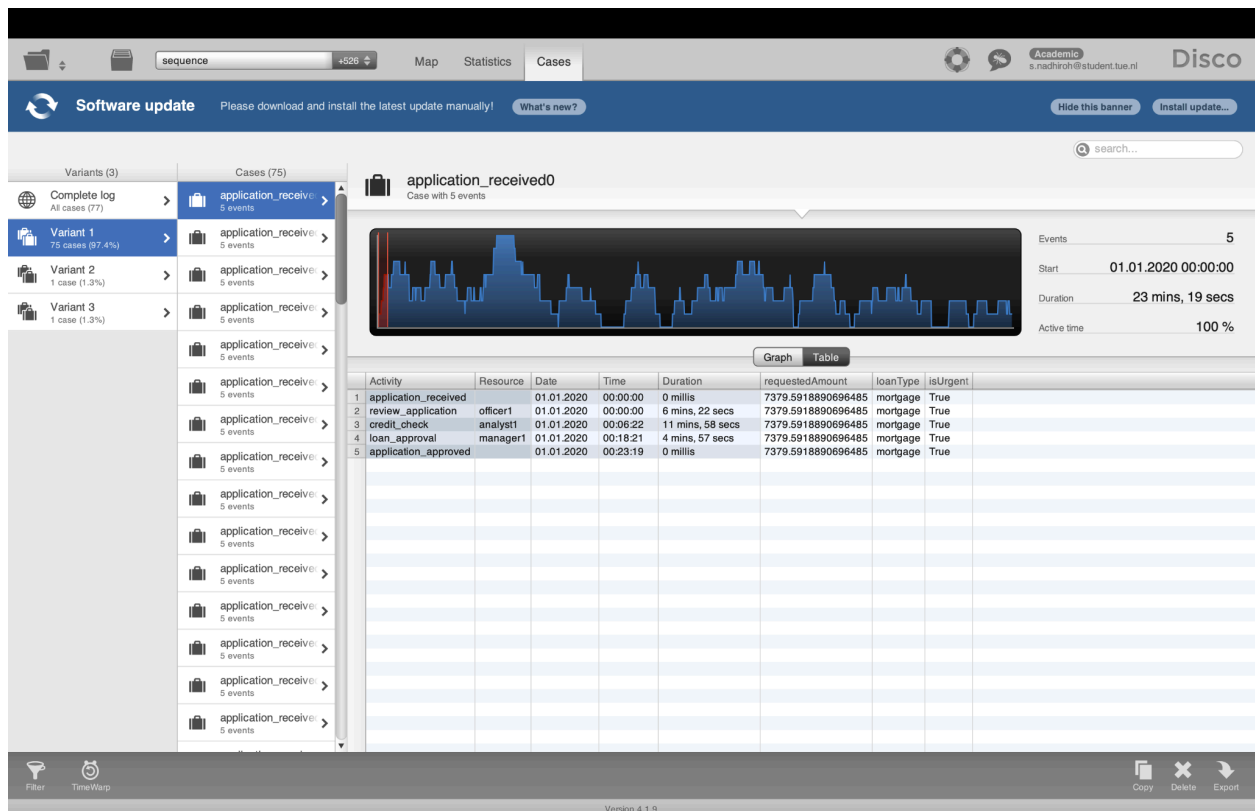
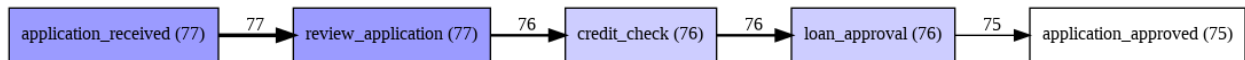


# Feature 1 - Additional Columns

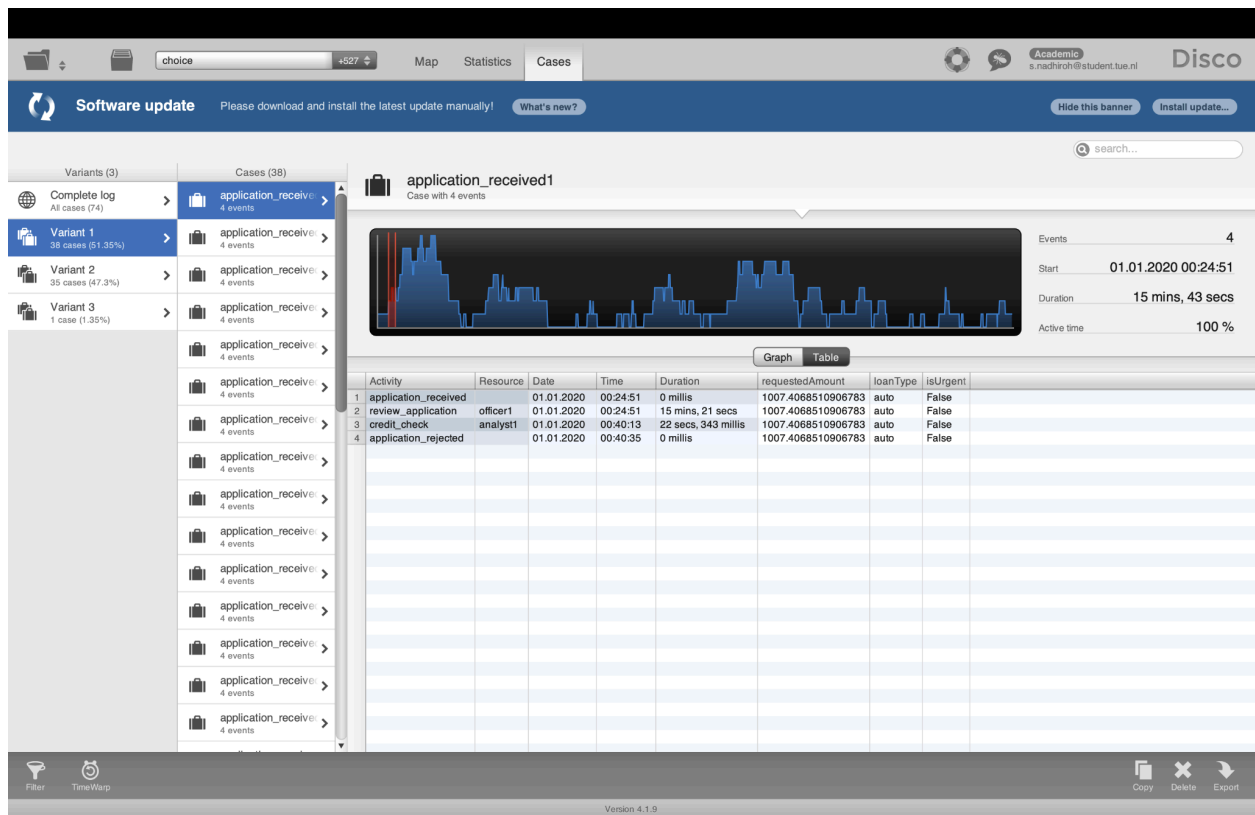
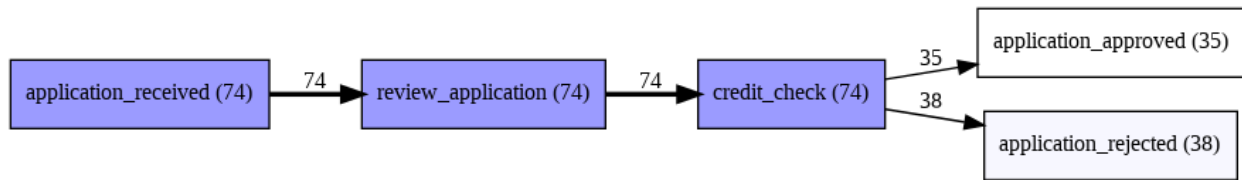
## Config:

```
{
  "case_attributes": {
    "requestedAmount": {
      "type": "numerical",
      "min": 1000,
      "max": 10000
    },
    "loanType": {
      "type": "string",
      "values": ["personal", "mortgage", "auto"]
    },
    "isUrgent": {
      "type": "boolean"
    }
  }
}
```

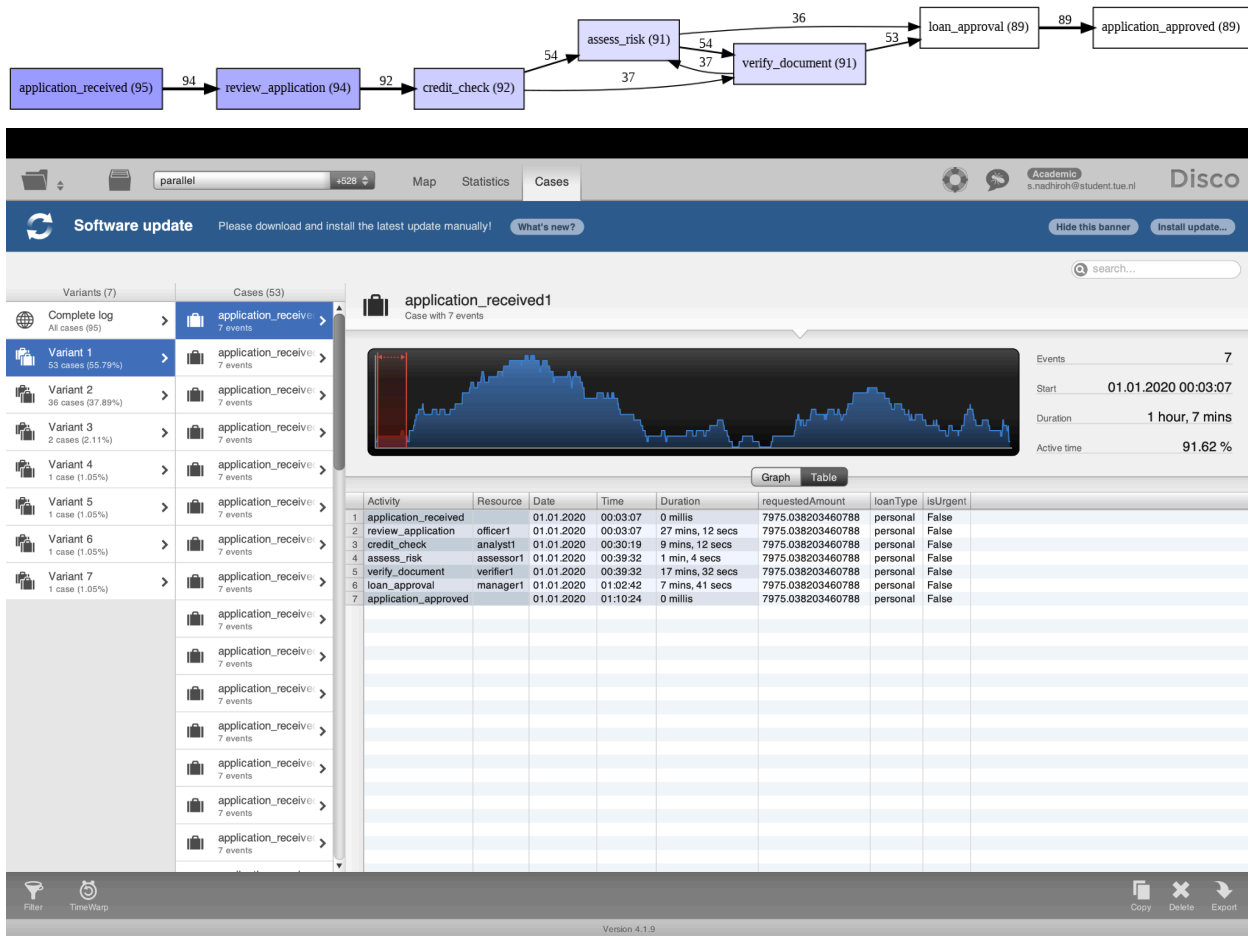
## Sequence



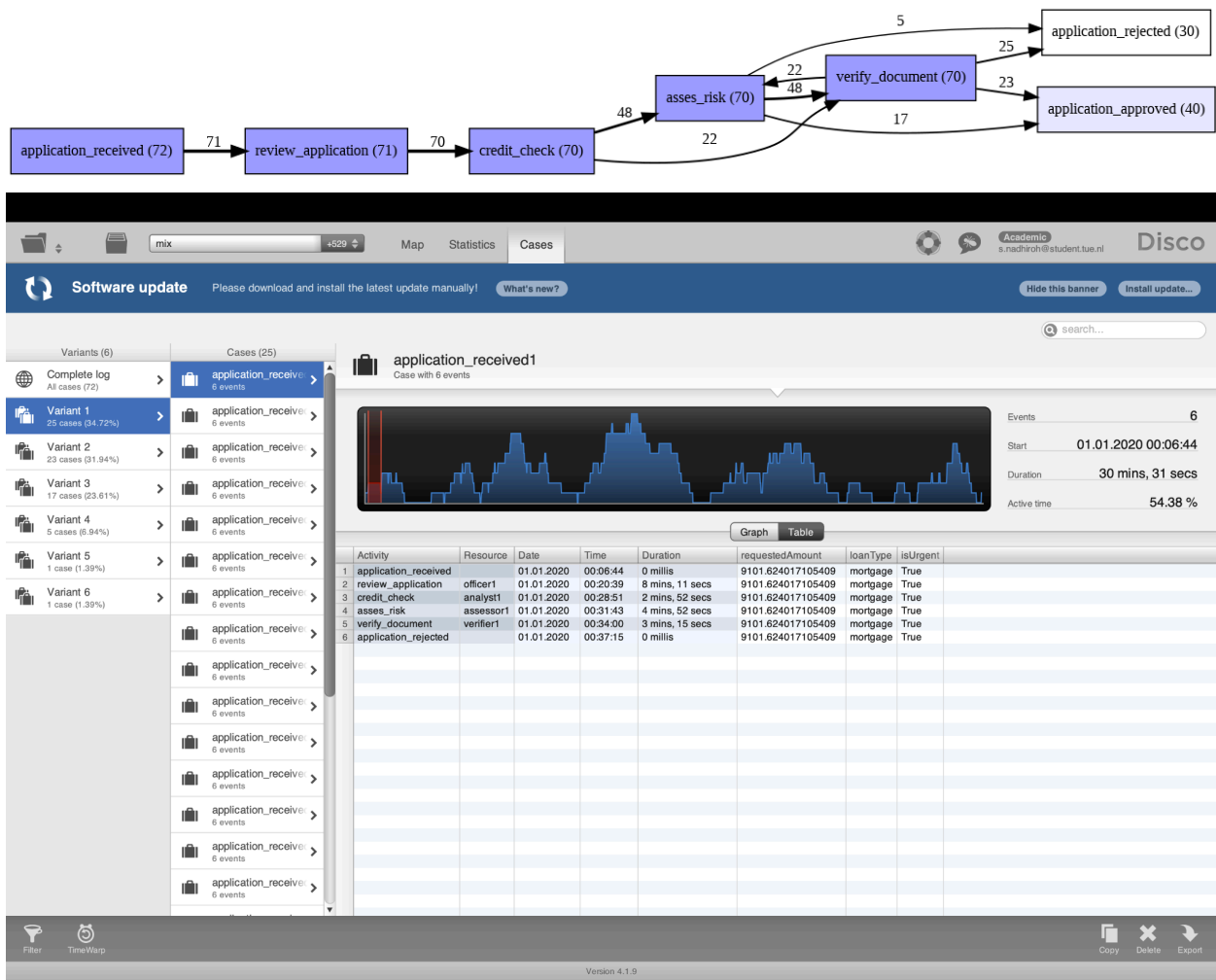
# Choice



# Parallel

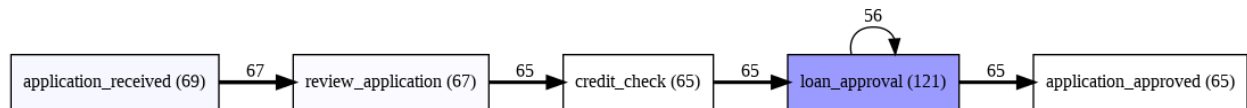


Mix



## Feature 2 - Single Rework (Without Condition)

### Sequence



### Config:

```
{
  "rework": [
    {
      "activity": "loan_approval",
      "max_iteration": 1,
      "probability": 0.5
    }
  ]
}
```

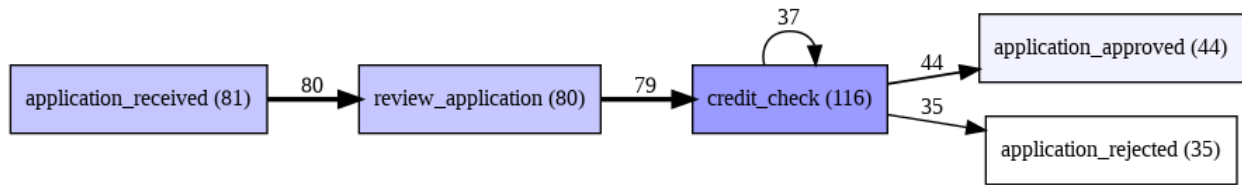
%	Variants
45.98%	Application_received → review_application → credit_check → <b>loan_approval</b> → <b>loan_approval</b> → application_approved
32.18%	Application_received → review_application → credit_check → <b>loan_approval</b> → application_approved
Others	Others

**Config:**

```
{
  "rework": [
    {
      "activity": "loan_approval",
      "max_iteration": 2,
      "probability": 0.5
    }
  ]
}
```

%	Variants
40.58%	Application_received → review_application → credit_check → <b>loan_approval</b> → application_approved
27.54%	Application_received → review_application → credit_check → <b>loan_approval → loan_approval → loan_approval</b> → application_approved
26.09%	Application_received → review_application → credit_check → <b>loan_approval → loan_approval</b> → application_approved
Others	Others

## Choice

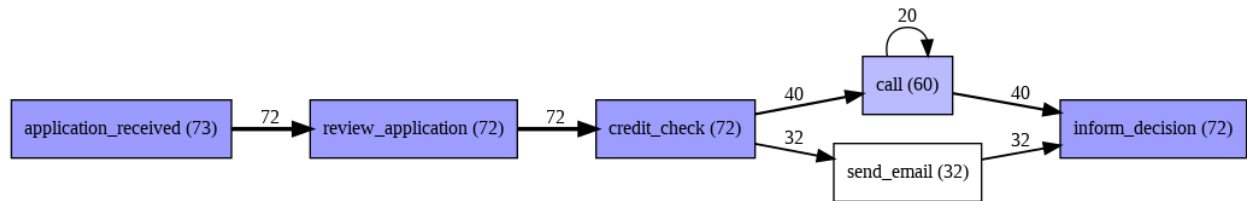


## Config:

```
{
  "rework": [
    {
      "activity": "credit_check",
      "max_iteration": 1,
      "probability": 0.5
    }
  ]
}
```

%	Variants
33.33%	Application_received → review_application → <b>credit_check</b> → application_approved
24.69%	Application_received → review_application → <b>credit_check</b> → <b>credit_check</b> application_rejected
20.99%	Application_received → review_application → <b>credit_check</b> → <b>credit_check</b> application_approved
18.52%	Application_received → review_application → <b>credit_check</b> → application_rejected
Others	Others





### Config:

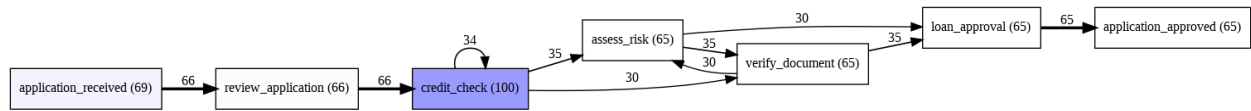
```

{
  "rework": [
    {
      "activity": "call",
      "max_iteration": 1,
      "probability": 0.5
    }
  ]
}

```

%	Variants
43.84%	Application_received → review_application → credit_check → send_email → inform_decision
27.4%	Application_received → review_application → credit_check → <b>call</b> → inform_decision
27.4%	Application_received → review_application → credit_check → <b>call → call</b> → inform_decision
Others	Others

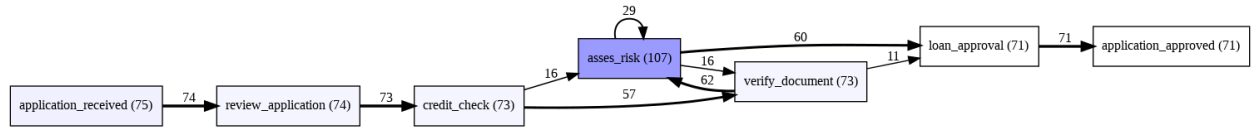
## Parallel



### Config:

```
{
  "rework": [
    {
      "activity": "credit_check",
      "max_iteration": 1,
      "probability": 0.5
    }
  ]
}
```

%	Variants
27.54%	Application_received → review_application → <b>credit_check</b> → <b>credit_check</b> → assess_risk → verify_document → loan_approval → application_approved
23.19%	Application_received → review_application → <b>credit_check</b> → assess_risk → verify_document → loan_approval → application_approved
21.74%	Application_received → review_application → <b>credit_check</b> → verify_document → assess_risk → loan_approval → application_approved
21.74%	Application_received → review_application → <b>credit_check</b> → <b>credit_check</b> → verify_document → assess_risk → loan_approval → application_approved
Others	Others



### Config:

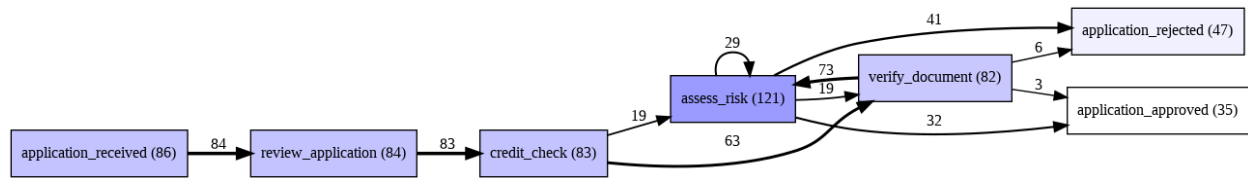
```

{
  "rework": [
    {
      "activity": "assess_risk",
      "max_iteration": 1,
      "probability": 0.5
    }
  ]
}

```

%	Variants
38.67%	Application_received → review_application → credit_check → verify_document → <b>assess_risk</b> → loan_approval → application_approved
34.67%	Application_received → review_application → credit_check → verify_document → <b>assess_risk</b> → <b>assess_risk</b> → loan_approval → application_approved
12%	Application_received → review_application → credit_check → <b>assess_risk</b> → verify_document → loan_approval → application_approved
6.67%	Application_received → review_application → credit_check → <b>assess_risk</b> → verify_document → <b>assess_risk</b> → loan_approval → application_approved
2.67%	Application_received → review_application → credit_check → <b>assess_risk</b> → <b>assess_risk</b> → verify_document → loan_approval → application_approved
Others	Others

# Mix



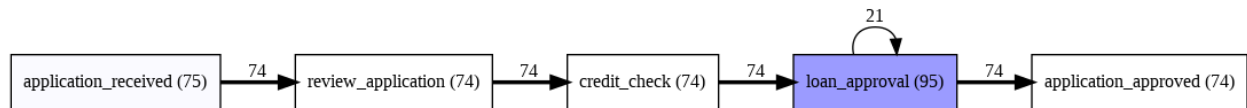
## Config:

```
{
  "rework": [
    {
      "activity": "assess_risk",
      "max_iteration": 1,
      "probability": 0.5
    }
  ]
}
```

%	Variants
23.26%	Application_received → review_application → credit_check → verify_document → <b>assess_risk</b> → application_rejected
18.6%	Application_received → review_application → credit_check → verify_document → <b>assess_risk</b> → <b>assess_risk</b> → application_rejected
18.6%	Application_received → review_application → credit_check → verify_document → <b>assess_risk</b> → application_approved
12.79%	Application_received → review_application → credit_check → verify_document → <b>assess_risk</b> → <b>assess_risk</b> → application_approved
5.81%	Application_received → review_application → credit_check → <b>assess_risk</b> → verify_document → <b>assess_risk</b> → application_rejected
5.81%	Application_received → review_application → credit_check → <b>assess_risk</b> → verify_document → <b>assess_risk</b> → application_approved
5.81%	Application_received → review_application → credit_check → <b>assess_risk</b> → verify_document → application_rejected
2.33%	Application_received → review_application → credit_check → <b>assess_risk</b> → verify_document → application_approved
1.16%	Application_received → review_application → credit_check → <b>assess_risk</b> → <b>assess_risk</b> → verify_document → application_approved
1.16%	Application_received → review_application → credit_check → <b>assess_risk</b> → <b>assess_risk</b> → verify_document → application_rejected
Others	Others

## Feature 2 - Single Rework (With Condition)

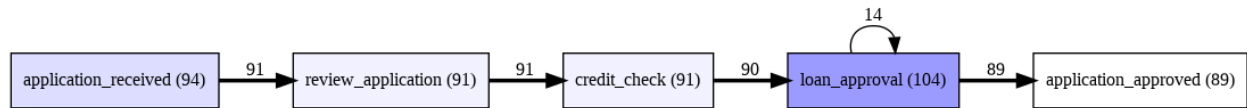
### Sequence



### Config:

```
{
  "rework": [
    {
      "activity": "loan_approval",
      "max_iteration": 1,
      "probability": 1,
      "condition": "loanType == 'personal'"
    }
  ],
  "case_attributes": {
    "requestedAmount": {
      "type": "numerical",
      "min": 1000,
      "max": 10000
    },
    "loanType": {
      "type": "string",
      "values": ["personal", "mortgage", "auto"]
    },
    "isUrgent": {
      "type": "boolean"
    }
  }
}
```

%	Variants
70.67%	Application_received → review_application → credit_check → <b>loan_approval</b> → application_approved
28%	Application_received → review_application → credit_check → <b>loan_approval</b> → <b>loan_approval</b> → application_approved
Others	Others



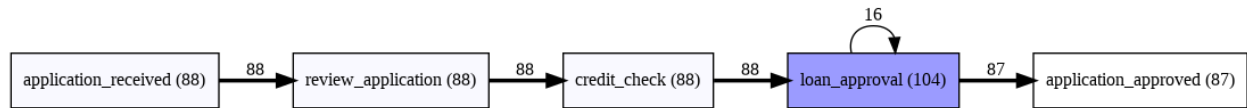
### Config:

```

{
  "rework": [
    {
      "activity": "loan_approval",
      "max_iteration": 1,
      "probability": 1,
      "condition": "loanType == 'personal' and isUrgent == False"
    }
  ],
  "case_attributes": {
    "requestedAmount": {
      "type": "numerical",
      "min": 1000,
      "max": 10000
    },
    "loanType": {
      "type": "string",
      "values": ["personal", "mortgage", "auto"]
    },
    "isUrgent": {
      "type": "boolean"
    }
  }
}

```

%	Variants
79.79%	Application_received → review_application → credit_check → <b>loan_approval</b> → application_approved
14.89%	Application_received → review_application → credit_check → <b>loan_approval</b> → <b>loan_approval</b> → application_approved
Others	Others



### Config:

```

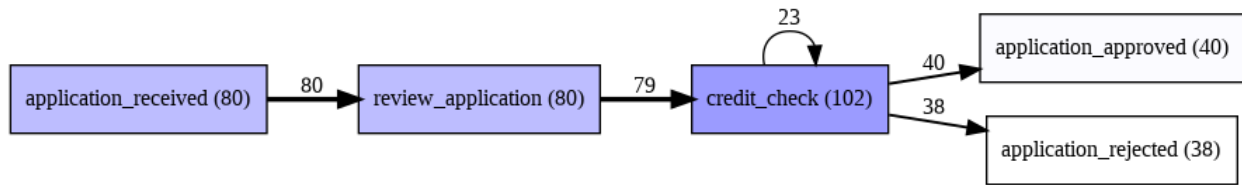
{
  "rework": [
    {
      "activity": "loan_approval",
      "max_iteration": 1,
      "probability": 0.5,
      "condition": "loanType == 'personal'"
    }
  ],
  "case_attributes": {
    "requestedAmount": {
      "type": "numerical",
      "min": 1000,
      "max": 10000
    },
    "loanType": {
      "type": "string",
      "values": ["personal", "mortgage", "auto"]
    },
    "isUrgent": {
      "type": "boolean"
    }
  }
}

```

%	Variants
80.68%	Application_received → review_application → credit_check → <b>loan_approval</b> → application_approved
18.18%	Application_received → review_application → credit_check → <b>loan_approval</b> → <b>loan_approval</b> → application_approved
Others	Others



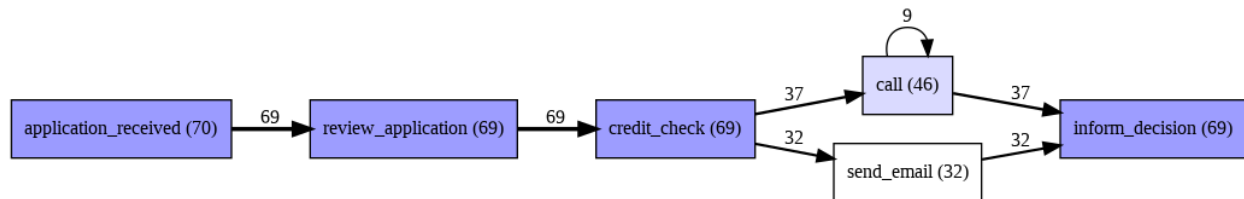
## Choice



## Config:

```
{
  "rework": [
    {
      "activity": "credit_check",
      "max_iteration": 1,
      "probability": 1,
      "condition": "loanType == 'personal'"
    }
  ],
  "case_attributes": {
    "requestedAmount": {
      "type": "numerical",
      "min": 1000,
      "max": 10000
    },
    "loanType": {
      "type": "string",
      "values": ["personal", "mortgage", "auto"]
    },
    "isUrgent": {
      "type": "boolean"
    }
  }
}
```

%	Variants
37.5%	Application_received → review_application → <b>credit_check</b> → application_rejected
31.25%	Application_received → review_application → <b>credit_check</b> → application_approved
18.75%	Application_received → review_application → <b>credit_check</b> → <b>credit_check</b> → application_approved
10%	Application_received → review_application → <b>credit_check</b> → <b>credit_check</b> → application_rejected
Others	Others



### Config:

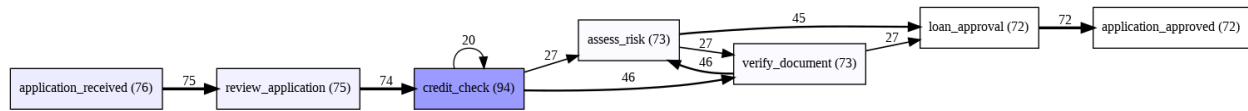
```

{
  "rework": [
    {
      "activity": "call",
      "max_iteration": 1,
      "probability": 1,
      "condition": "loanType == 'personal'"
    }
  ],
  "case_attributes": {
    "requestedAmount": {
      "type": "numerical",
      "min": 1000,
      "max": 10000
    },
    "loanType": {
      "type": "string",
      "values": ["personal", "mortgage", "auto"]
    },
    "isUrgent": {
      "type": "boolean"
    }
  }
}

```

%	Variants
45.71%	Application_received → review_application → credit_check → send_email → inform_decision
40%	Application_received → review_application → credit_check → <b>call</b> → inform_decision
12.86%	Application_received → review_application → credit_check → <b>call</b> → <b>call</b> → inform_decision
Others	Others

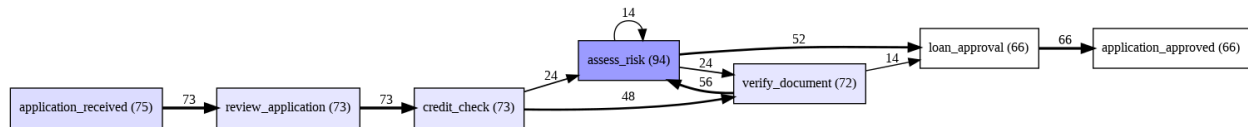
# Parallel



## Config:

```
{
  "rework": [
    {
      "activity": "credit_check",
      "max_iteration": 1,
      "probability": 1,
      "condition": "loanType == 'personal'"
    }
  ],
  "case_attributes": {
    "requestedAmount": {
      "type": "numerical",
      "min": 1000,
      "max": 10000
    },
    "loanType": {
      "type": "string",
      "values": ["personal", "mortgage", "auto"]
    },
    "isUrgent": {
      "type": "boolean"
    }
  }
}
```

%	Variants
44%	Application_received → review_application → <b>credit_check</b> → verify_document → assess_risk → loan_approval → application_approved
17.33%	Application_received → review_application → <b>credit_check</b> → assess_risk → verify_document → loan_approval → application_approved
16%	Application_received → review_application → <b>credit_check</b> → <b>credit_check</b> → verify_document → assess_risk → loan_approval → application_approved
13.33%	Application_received → review_application → <b>credit_check</b> → <b>credit_check</b> → assess_risk → verify_document → loan_approval → application_approved
Others	Others



### Config:

```

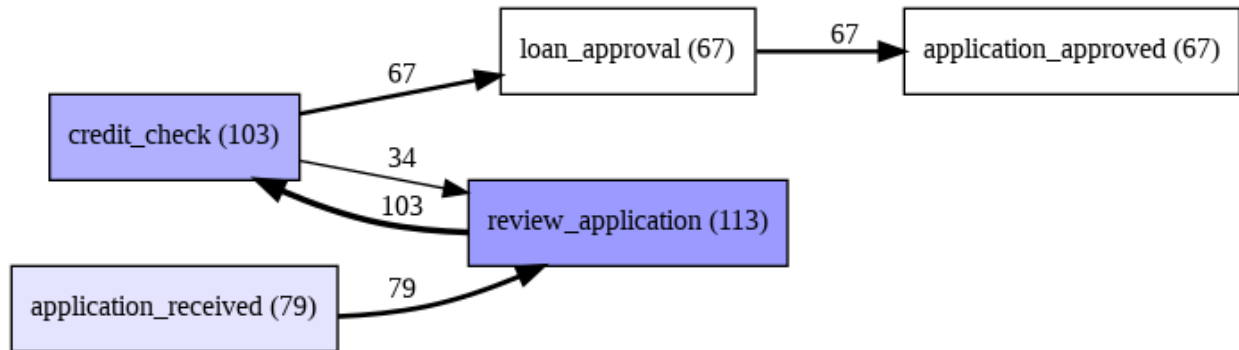
{
  "rework": [
    {
      "activity": "assess_risk",
      "max_iteration": 1,
      "probability": 1,
      "condition": "loanType == 'personal'"
    }
  ],
  "case_attributes": {
    "requestedAmount": {
      "type": "numerical",
      "min": 1000,
      "max": 10000
    },
    "loanType": {
      "type": "string",
      "values": ["personal", "mortgage", "auto"]
    },
    "isUrgent": {
      "type": "boolean"
    }
  }
}

```

%	Variants
38.67%	Application_received → review_application → credit_check → verify_document → <b>assess_risk</b> → loan_approval → application_approved
18.67%	Application_received → review_application → credit_check → <b>assess_risk</b> → verify_document → loan_approval → application_approved
18.67%	Application_received → review_application → credit_check → verify_document → <b>assess_risk → assess_risk</b> → loan_approval → application_approved
12%	Application_received → review_application → credit_check → <b>assess_risk</b> → verify_document → <b>assess_risk</b> → loan_approval → application_approved
Others	Others

## Feature 3 - Long Rework (Without Condition)

### Sequence

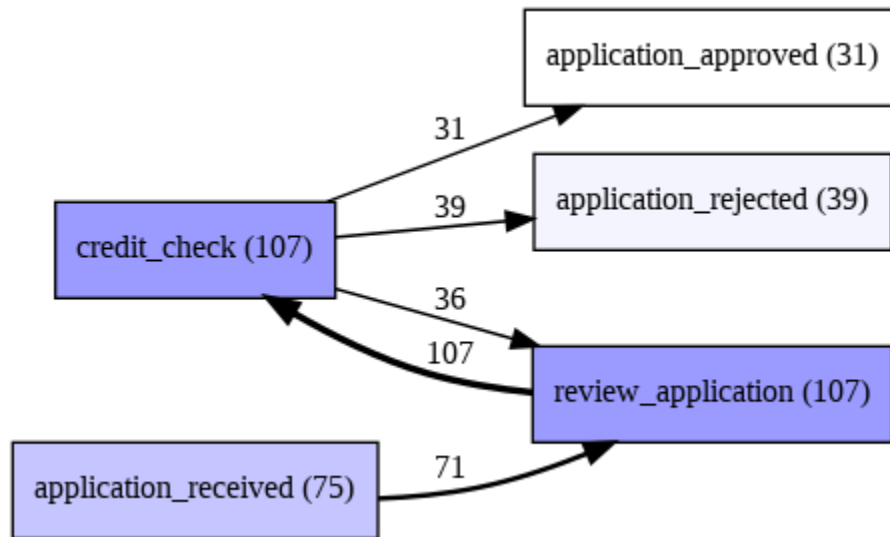


### Config:

```
{
  "long_rework": [
    {
      "trigger_activity": "credit_check",
      "back_to": "review_application",
      "max_iteration": 1,
      "probability": 0.5
    }
  ]
}
```

%	Variants
46.84%	Application_received → <b>review_application</b> → <b>credit_check</b> → loan_approval → application_approved
37.97%	Application_received → <b>review_application</b> → <b>credit_check</b> → <b>review_application</b> → <b>credit_check</b> → loan_approval → application_approved
Others	Others

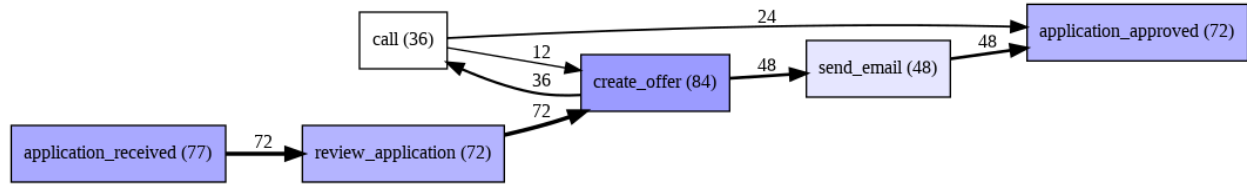
## Choice



## Config:

```
{
  "long_rework": [
    {
      "trigger_activity": "credit_check",
      "back_to": "review_application",
      "max_iteration": 1,
      "probability": 0.5
    }
  ]
}
```

%	Variants
26.67%	Application_received → review_application → credit_check → application_rejected
25.33%	Application_received → review_application → credit_check → review_application → credit_check → application_rejected
22.67%	Application_received → review_application → credit_check → review_application → credit_check → application_approved
18.67%	Application_received → review_application → credit_check → application_approved
Others	Others



### Config:

```

{
  "long_rework": [
    {
      "trigger_activity": "call",
      "back_to": "create_offer",
      "max_iteration": 1,
      "probability": 0.5
    }
  ]
}

```

%	Variants
51.95%	Application_received → review_application → create_offer → send_email → application_approved
25.97%	Application_received → review_application → <b>create_offer</b> → <b>call</b> → application_approved
10.39%	Application_received → review_application → <b>create_offer</b> → <b>call</b> → <b>create_offer</b> → send_email → application_approved
5.19%	Application_received → review_application → <b>create_offer</b> → <b>call</b> → <b>create_offer</b> → <b>call</b> → application_approved
Others	Others

# Parallel

## Config:

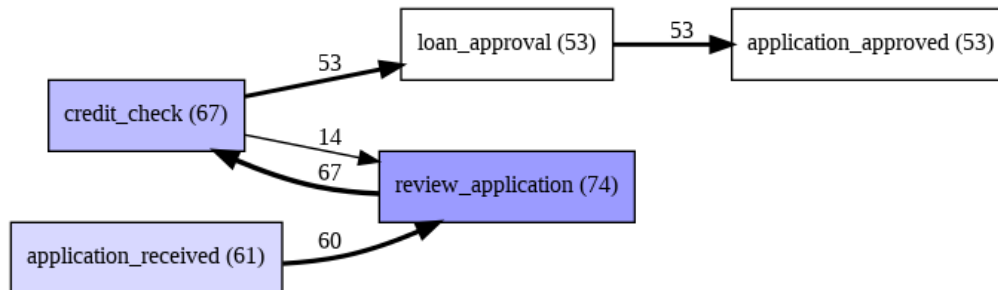
```
{
  "long_rework": [
    {
      "trigger_activity": "assess_risk",
      "back_to": "credit_check",
      "max_iteration": 1,
      "probability": 0.5
    }
  ]
}
```

%	Variants
25%	Application_received → review_application → <b>credit_check</b> → <b>assess_risk</b> → verify_document → loan_approval → application_approved
20.59%	Application_received → review_application → <b>credit_check</b> → verify_document → <b>assess_risk</b> → loan_approval → application_approved
17.65%	Application_received → review_application → <b>credit_check</b> → verify_document → <b>assess_risk</b> → <b>credit_check</b> → verify_document → <b>assess_risk</b> → loan_approval → application_approved
5.88%	Application_received → review_application → <b>credit_check</b> → <b>assess_risk</b> → verify_document → <b>credit_check</b> → verify_document → <b>assess_risk</b> → loan_approval → application_approved
4.41%	Application_received → review_application → <b>credit_check</b> → <b>assess_risk</b> → verify_document → <b>credit_check</b> → <b>assess_risk</b> → verify_document → loan_approval → application_approved
4.41%	Application_received → review_application → <b>credit_check</b> → verify_document → <b>assess_risk</b> → <b>credit_check</b> → <b>assess_risk</b> → verify_document → loan_approval → application_approved
Others	Others



## Feature 3 - Long Rework (WithCondition)

### Sequence

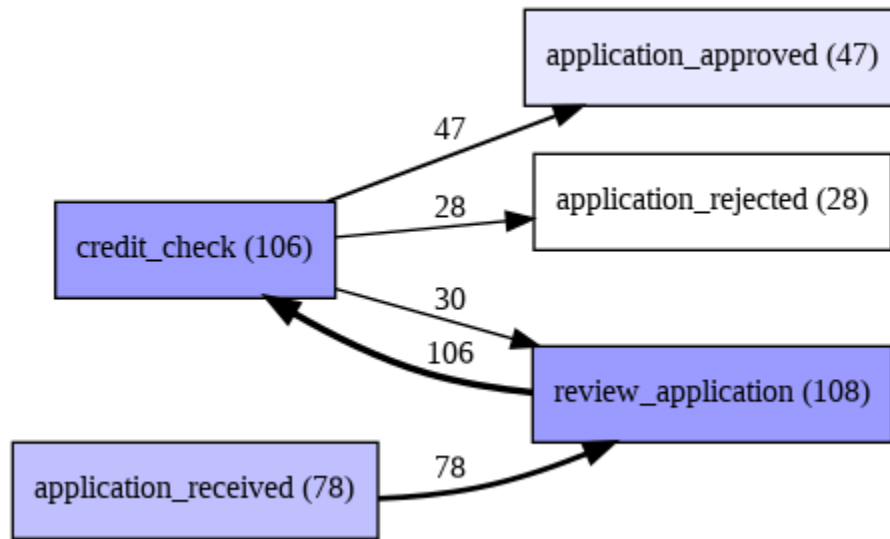


### Config:

```
{
  "long_rework": [
    {
      "trigger_activity": "credit_check",
      "back_to": "review_application",
      "max_iteration": 1,
      "probability": 1,
      "condition": "loanType == 'personal'"
    }
  ],
  "case_attributes": {
    "requestedAmount": {
      "type": "numerical",
      "min": 1000,
      "max": 10000
    },
    "loanType": {
      "type": "string",
      "values": ["personal", "mortgage", "auto"]
    },
    "isUrgent": {
      "type": "boolean"
    }
  }
}
```

%	Variants
65.75%	Application_received → review_application → credit_check → loan_approval → application_approved
21.31%	Application_received → review_application → credit_check → review_application → credit_check → loan_approval → application_approved
Others	Others

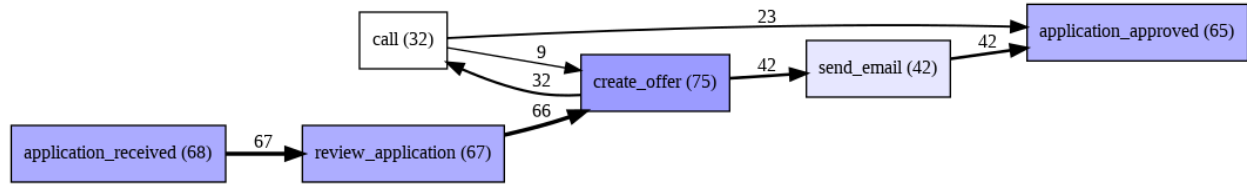
## Choice



## Config:

```
{
  "long_rework": [
    {
      "trigger_activity": "credit_check",
      "back_to": "review_application",
      "max_iteration": 1,
      "probability": 0.5,
      "condition": "loanType == 'personal'"
    }
  ],
  "case_attributes": {
    "requestedAmount": {
      "type": "numerical",
      "min": 1000,
      "max": 10000
    },
    "loanType": {
      "type": "string",
      "values": ["personal", "mortgage", "auto"]
    },
    "isUrgent": {
      "type": "boolean"
    }
  }
}
```

%	Variants
37.18%	Application_received → <b>review_application</b> → <b>credit_check</b> → application_approved
23.08%	Application_received → <b>review_application</b> → <b>credit_check</b> → <b>review_application</b> → <b>credit_check</b> → application_approved
21.79%	Application_received → <b>review_application</b> → <b>credit_check</b> → application_rejected
14.1%	Application_received → <b>review_application</b> → <b>credit_check</b> → <b>review_application</b> → <b>credit_check</b> → application_rejected
Others	Others



### Config:

```

{
  "long_rework": [
    {
      "trigger_activity": "call",
      "back_to": "create_offer",
      "max_iteration": 1,
      "probability": 0.5,
      "condition": "loanType == 'personal'"
    }
  ],
  "case_attributes": {
    "requestedAmount": {
      "type": "numerical",
      "min": 1000,
      "max": 10000
    },
    "loanType": {
      "type": "string",
      "values": ["personal", "mortgage", "auto"]
    },
    "isUrgent": {
      "type": "boolean"
    }
  }
}

```

%	Variants
55.88%	Application_received → review_application → create_offer → send_email → application_approved
27.94%	Application_received → review_application → <b>create_offer</b> → <b>call</b> → application_approved
5.88%	Application_received → review_application → <b>create_offer</b> → <b>call</b> → <b>create_offer</b> → <b>call</b> → application_approved
5.88%	Application_received → review_application → <b>create_offer</b> → <b>call</b> → <b>create_offer</b> → send_email → application_approved
Others	Others

# Parallel

## Config:

```
{
  "long_rework": [
    {
      "trigger_activity": "assess_risk",
      "back_to": "credit_check",
      "max_iteration": 1,
      "probability": 0.5,
      "condition": "loanType == 'personal'"
    }
  ],
  "case_attributes": {
    "requestedAmount": {
      "type": "numerical",
      "min": 1000,
      "max": 10000
    },
    "loanType": {
      "type": "string",
      "values": ["personal", "mortgage", "auto"]
    },
    "isUrgent": {
      "type": "boolean"
    }
  }
}
```

%	Variants
30.16%	Application_received → review_application → <b>credit_check</b> → verify_document → <b>assess_risk</b> → loan_approval → application_approved
25.4%	Application_received → review_application → <b>credit_check</b> → <b>assess_risk</b> → verify_document → loan_approval → application_approved
20.63%	Application_received → review_application → <b>credit_check</b> → verify_document → <b>assess_risk</b> → <b>credit_check</b> → verify_document → <b>assess_risk</b> → loan_approval → application_approved
6.35%	Application_received → review_application → <b>credit_check</b> → <b>assess_risk</b> → verify_document → <b>credit_check</b> → <b>assess_risk</b> → verify_document → loan_approval → application_approved
6.35%	Application_received → review_application → <b>credit_check</b> → <b>assess_risk</b> → verify_document → <b>credit_check</b> → verify_document → <b>assess_risk</b> → loan_approval → application_approved
3.17%	Application_received → review_application → <b>credit_check</b> → verify_document → <b>assess_risk</b> → <b>credit_check</b> → <b>assess_risk</b> → verify_document → loan_approval → application_approved

Others	Others
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