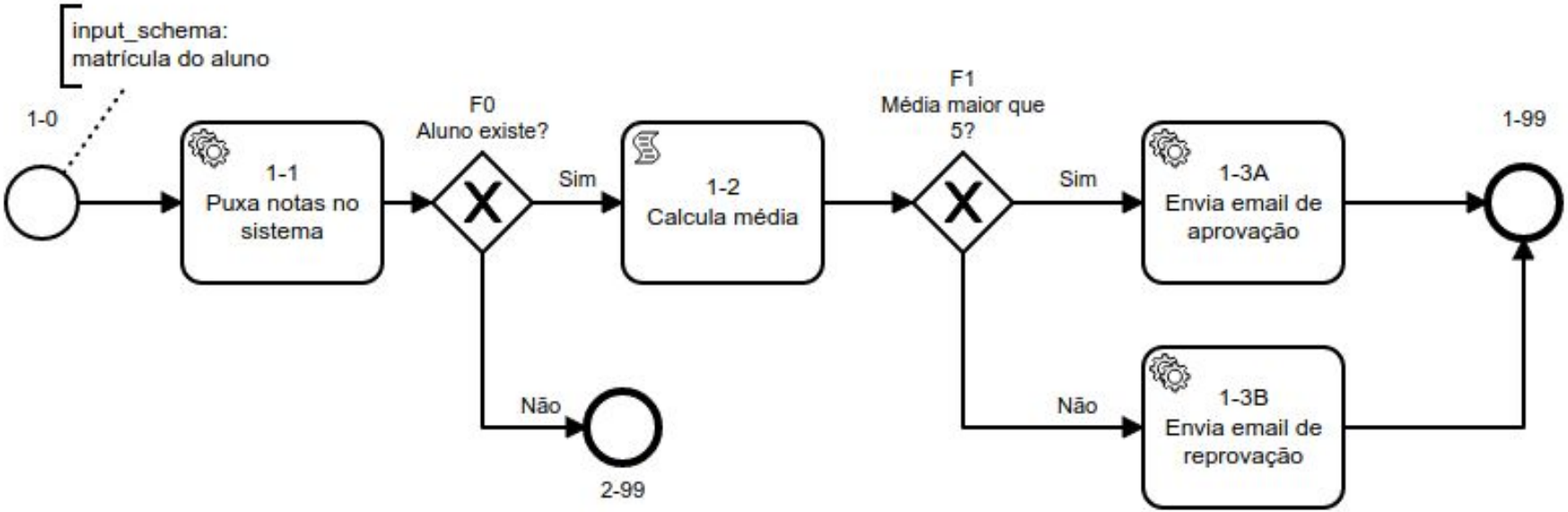
Introdução a testes com workflow

Utilizando framework jest

Por que usar usar Jest?

- Configuração simples
- Sintaxe **xUnit**
- Mesmo framework usado no *workflow engine*
- Mensagens de erro explicativas

Workflow exemplo



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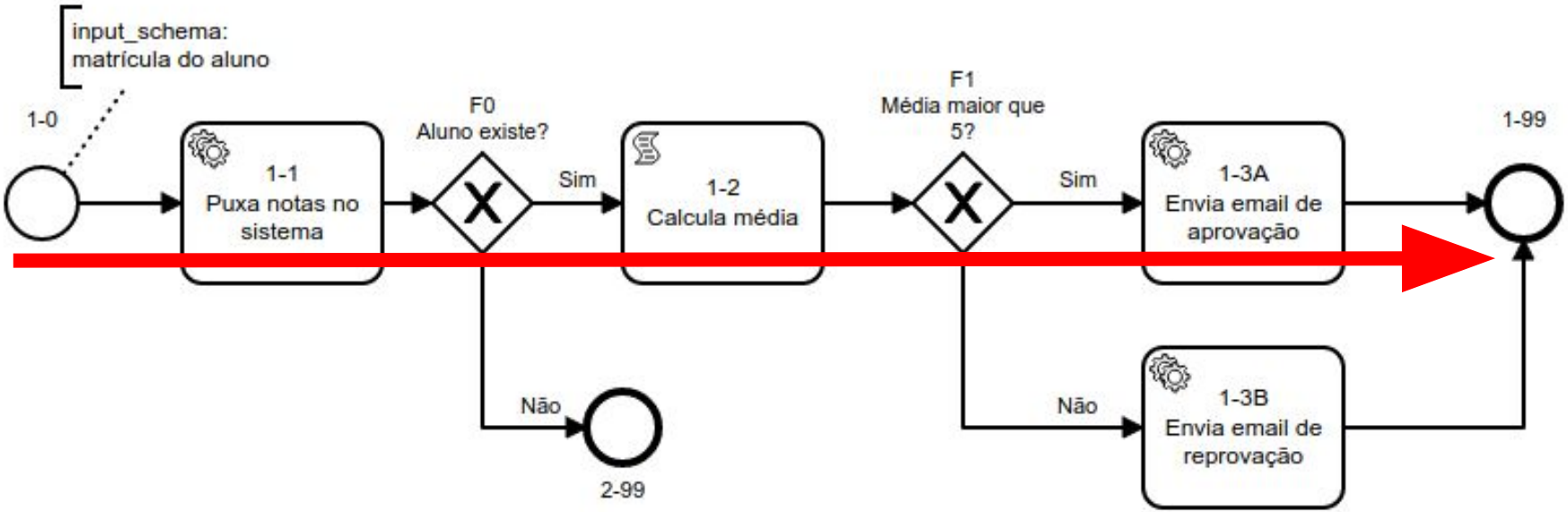

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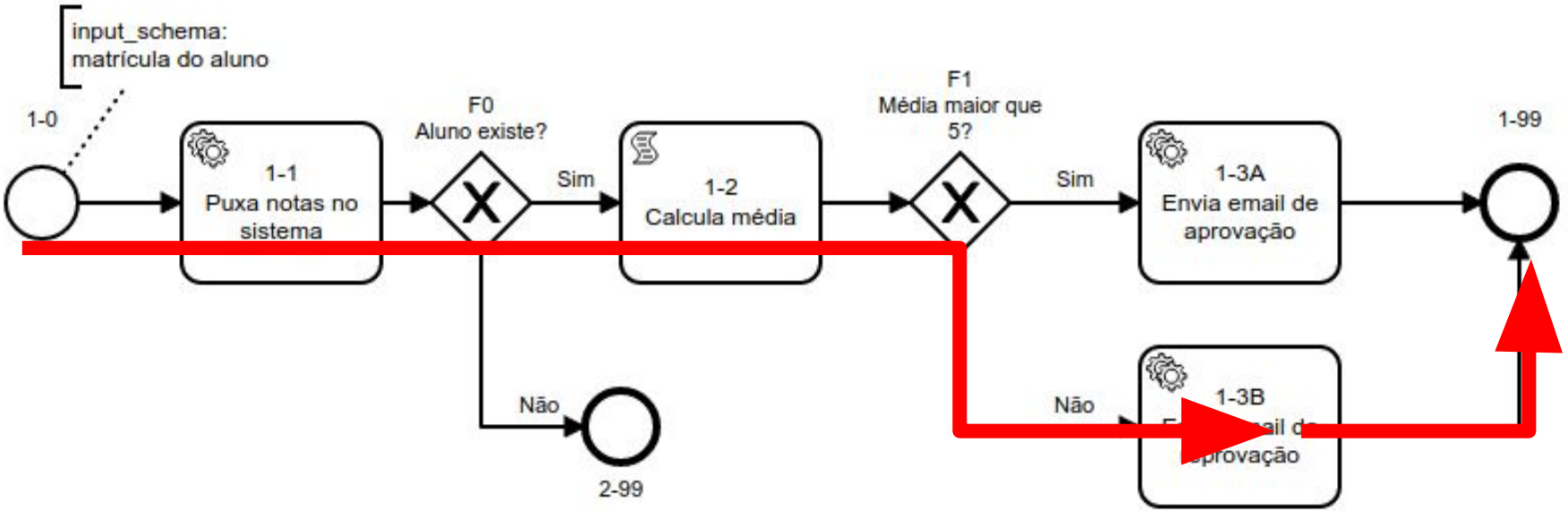

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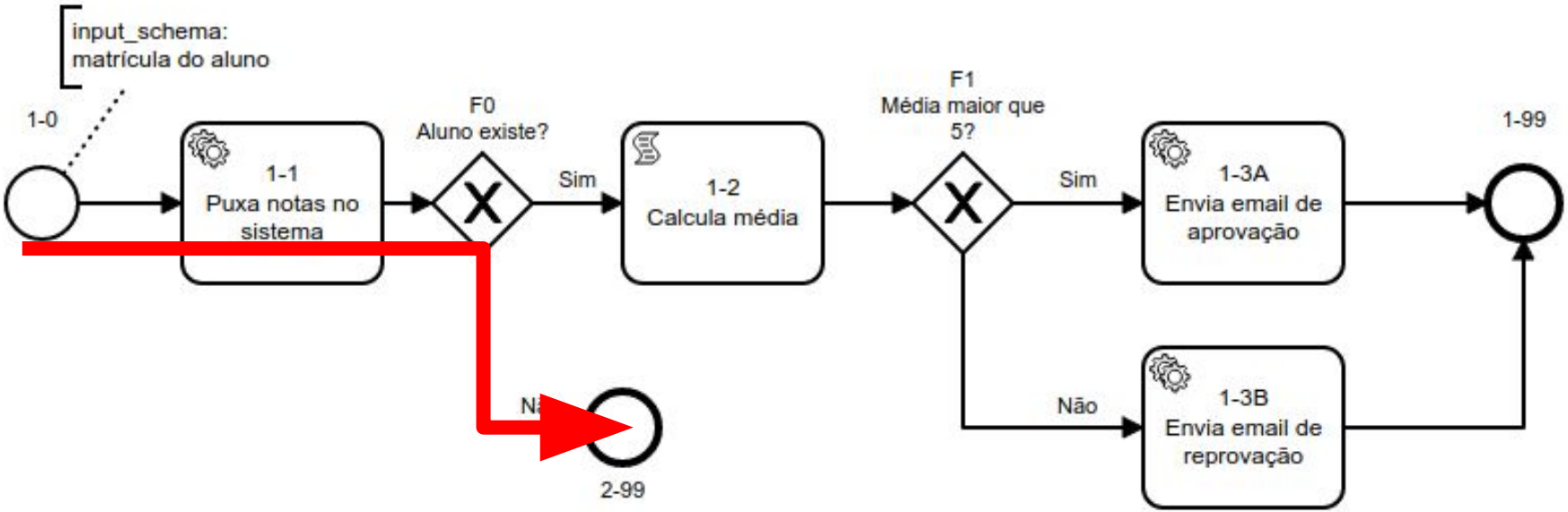


```
describe('Sistema alunos', () => {
 test('Bloco 1.1 - Aluno aprovado', async () => {
   // ...
 });
 test('Bloco 1.2 - Aluno reprovado', async () => {
   // ...
 });
 test('Bloco 2 - Aluno não existe', async () => {
   // ...
 });
});
```

```
beforeAll(async () => {
 await runMemorySeeds();
 engine = new Engine('memory', undefined);
});
```

```
 let workflow = null;

 beforeAll(async () => {
   workflow = await engine.saveWorkflow('sistema_alunos',
     'Sistema de alunos', blueprint_spec);

   expect(workflow.id).toBeDefined();
 });
```

O que conferir?

```
const process = await engine.createProcess(workflow.id, actor_data,
   { matricula: 1234 });

expect(process.id).toBeDefined();

await engine.runProcess(process.id, actor_data);

const state_history = await engine.fetchProcessStateHistory(process.id);
fs.writeFileSync(`states/fluxo_1_1_${states_file}`,
   JSON.stringify(state_history, null, 2), 'utf8', () => { });
```

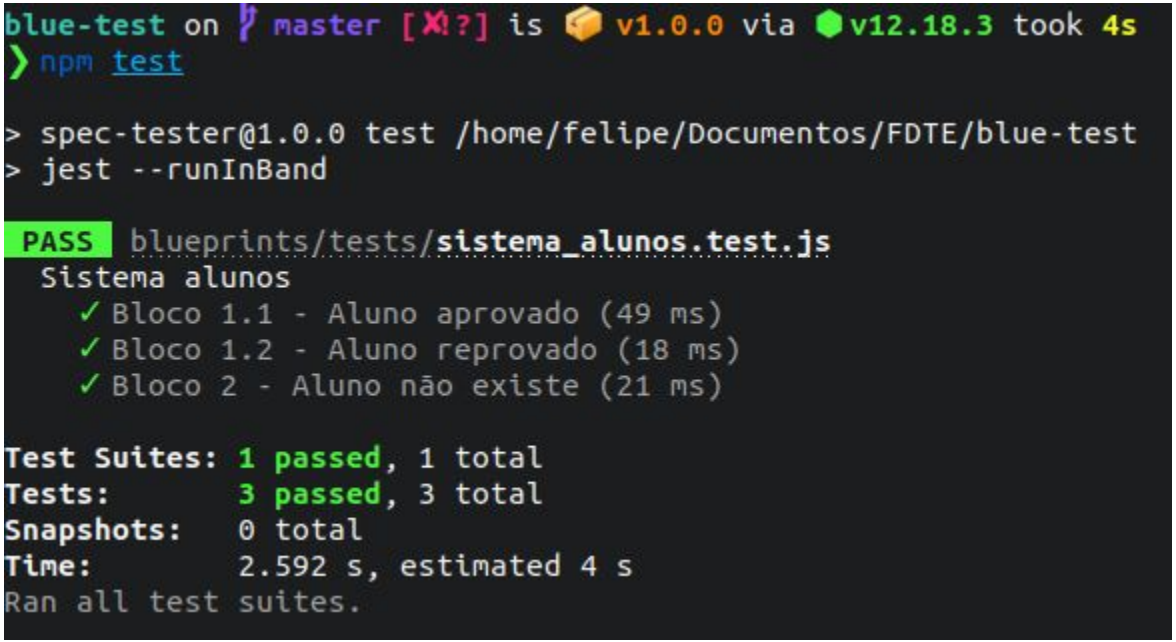
O que conferir?

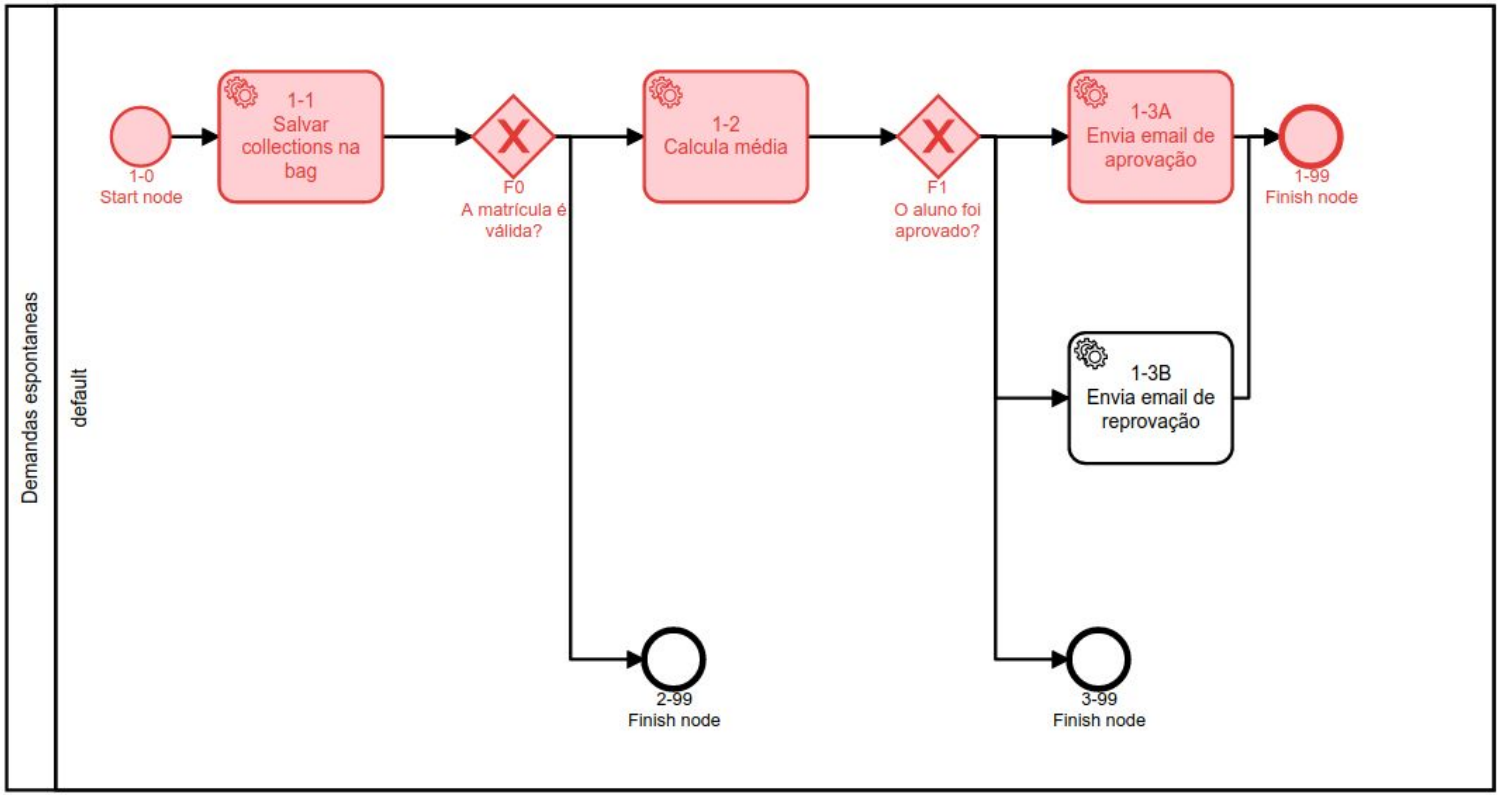
```
expect(state_history.find((state) => state.node_id === '1-1')
  .result.status).toEqual(200);
```

```
// Must pass through node 1-3B
expect(state_history.find((state) => state.node_id === '1-3B'))
   .toBeDefined();
```

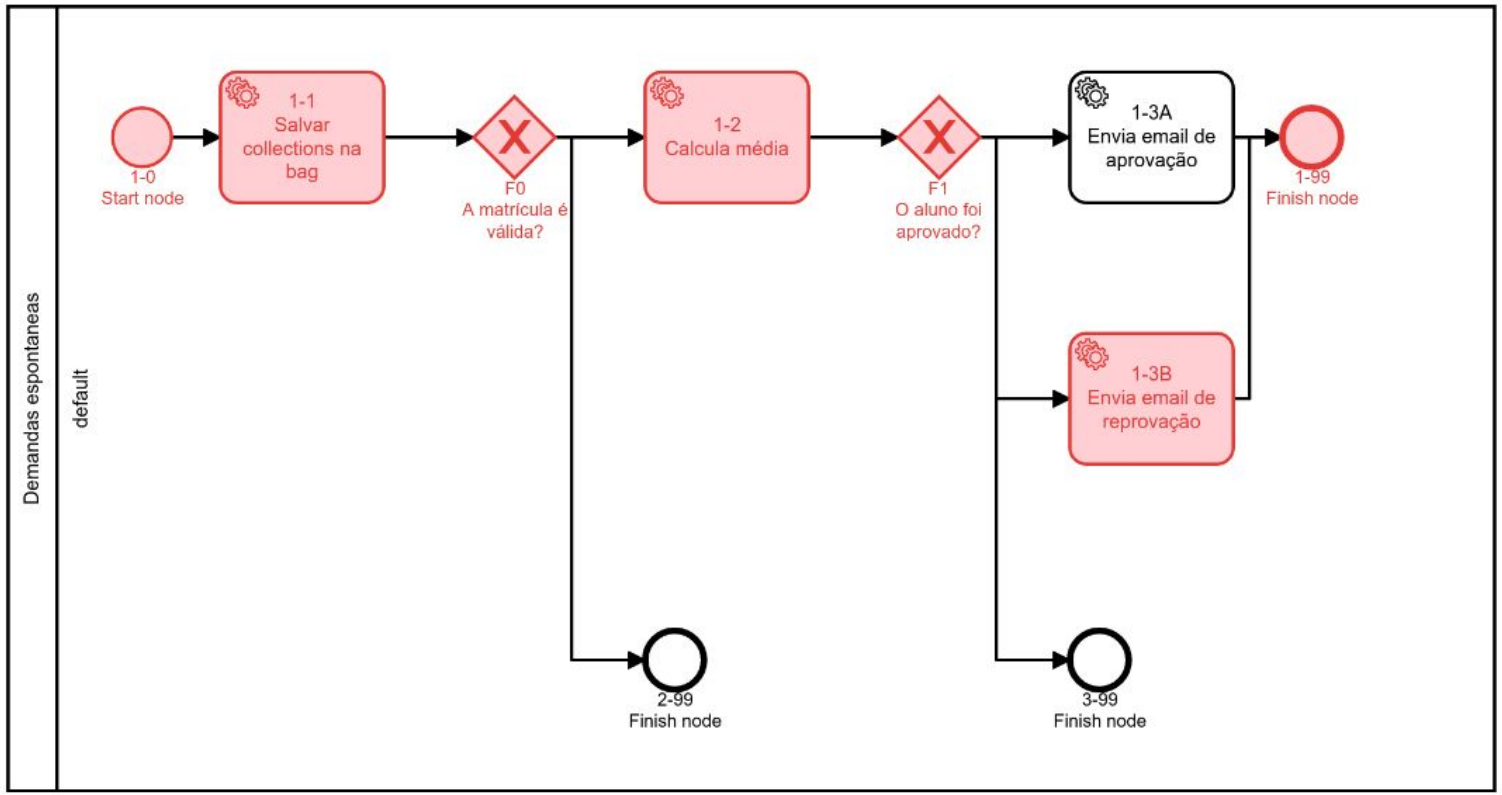
```
expect(state_history[0].status).not.toEqual('error');
```

Resultado


blue-test on master [✘!?] is v1.0.0 via v12.18.3 took 4s
❯ npm test
> spec-tester@1.0.0 test /home/felipe/Documentos/FDTE/blue-test
> jest --runInBand
PASS blueprints/tests/sistema_alunos.test.js
Sistema alunos
✓ Bloco 1.1 - Aluno aprovado (49 ms)
✓ Bloco 1.2 - Aluno reprovado (18 ms)
✓ Bloco 2 - Aluno não existe (21 ms)
Test Suites: 1 passed, 1 total
Tests: 3 passed, 3 total
Snapshots: 0 total
Time: 2.592 s, estimated 4 s
Ran all test suites.


Demandas espontaneas
default
1-0
Start node
1-1
Salvar collections na bag
F0
A matrícula é válida?
1-2
Calcula média
F1
O aluno foi aprovado?
1-3A
Envia email de aprovação
1-99
Finish node
1-3B
Envia email de reprovação
2-99
Finish node
3-99
Finish node

Details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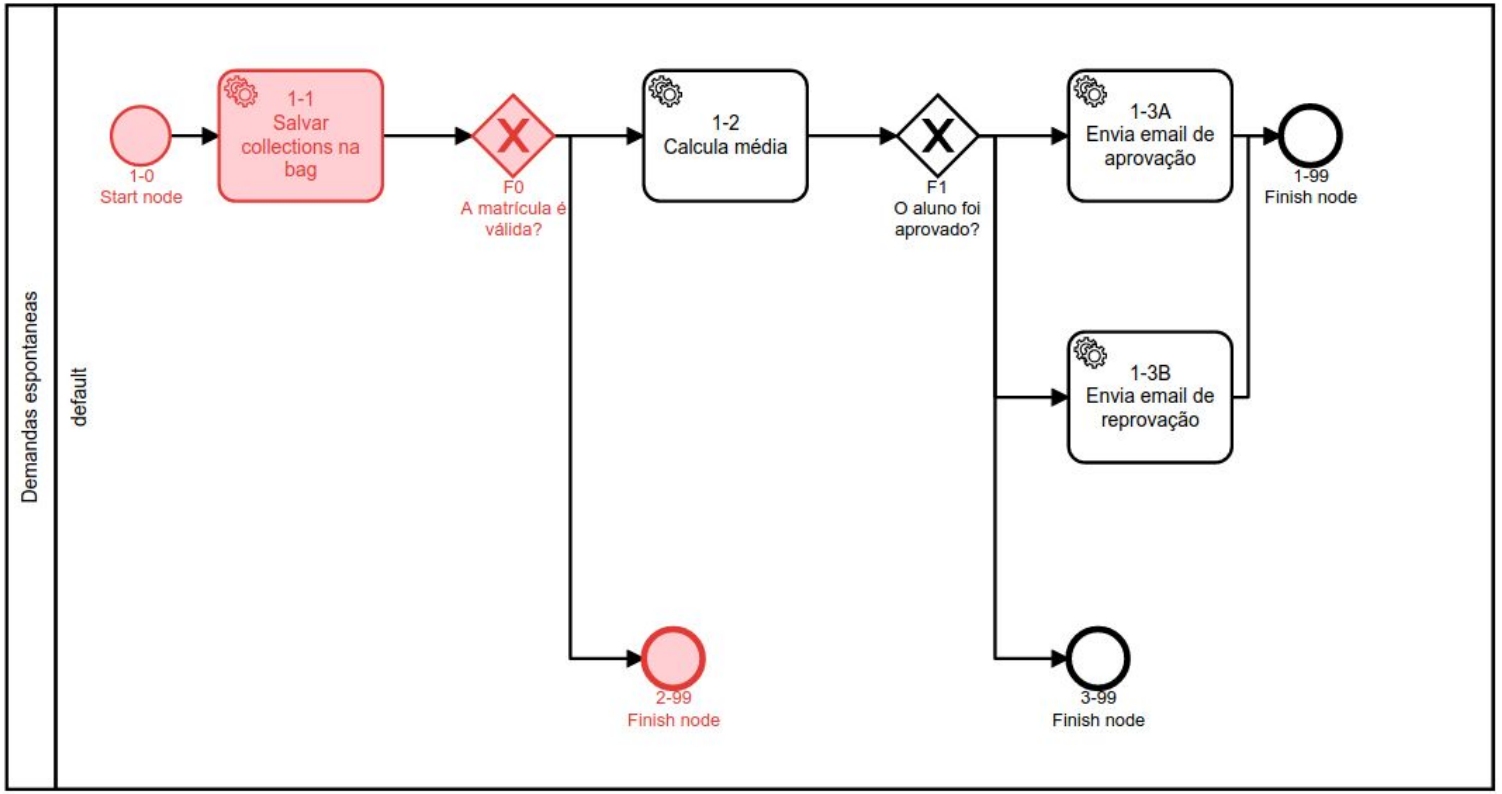
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