# **PreScreenRule Process Flow**

1. Check whether is low risk
2. Show web page based on Drools rule result
3. Return low risk if PreScreenR object is not created inside Drools Rule Result; Otherwise, Return high risk
4. Reply Drools Rule Result
5. Fire Drools Rules
6. Fire Drools Rule

KIE Runtime

KieContiainer

Utilities Class Phq9Integration

1. Compute PreScreen Result

Spring Boot

PhqCheckService

Spring Boot

RequestController

1. Create Session

Drools Rule

PreScreenRule.drl

Stateful Session

KieSession

The Spring Boot controller class RequestController will invoke the service class PhqCheckService to get the PreScreen results. The PhqCheckService then invoke the utilities class Phq9Integration, which then create the KIE runtime, setup the required objects and load the Drools rules. The Drools rules results are saved and can be retrieved by the Phq9Integration, and sent back to the RequestController to decide the next step action.

1. Fill in personal Information Form
2. Create KieContainer

Phq9 User

# **PHQ-2-Rule Process Flow**

KIE Runtime

KieContiainer

Utilities Class Phq9Integration

Spring Boot

PhqCheckService

Spring Boot

RequestController

Drools Rule

PHQ-2-Rule.drl

Stateful Session

KieSession

The process is similar as PreScreenRule process flow, and the differences are the drools rules to be invoked and how to process the results.

1. Fill in PHQ-2 Question Form
2. Create Session
3. Show web page based on Drools Rules result
4. PHQ2-Rule process is stopped if PHQ2R object is not created inside Drools Rule Result
5. Create KieContainer

Phq9 User

1. Check PHQ-2 Questions Result
2. Fire Drools Rules
3. Fire Drools Rules
4. Compute PHQ-2 Result
5. Reply Drools Rule Result

# **PHQ-9-Check-Rule Process Flow**

KIE Runtime

KieContiainer

Utilities Class Phq9Integration

Spring Boot

PhqCheckService

Spring Boot

RequestController

Drools Rule

PHQ-9-Check-Rule.drl

Stateful Session

KieSession

The process is similar as PreScreenRule process flow, and the differences are the drools rules to be invoked and how to process the results.

1. Submit PHQ-9 Questions Form
2. Show web page based on Drools Rule Result
3. There is alert if PHQ9R object is created inside Drools Rule Result
4. Reply Drools Rule Result
5. Fire Drools Rules
6. Fire Drools Rules
7. Create Session
8. Create KieContainer
9. Compute PHQ-9 Result
10. Check whether there is alert for PHQ-9 result