**Goal Orient Action Planning (GOAP)**

Case study: Generalized SDLC process.

Initial design notes.

GOAP uses PreConditions for an Action and then an effect. Each envisaged Action follows in a tabular representation.

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **PreCondition(s)** | **Action** | **Effect** |
|  | hasCustomerRequirement = true | Gather requirement | hasRequirement = true |
|  | hasRequirement = true | Create User Story | hasUserStory = true  hasSuccessCriteria = true  hasAcceptanceCriteria = true |
|  | hasUserStory | Register Task | hasTask = true |
|  | hasTask = true | Implement solution | hasImplemented = true |
|  | hasImplemented = true  hasSuccessCriteria = true | Review code | isCodeReviewd = true |
|  | isCodeReviewd = true  hasAcceptanceCriteria = true | Test solution | hasPassedTests = true |
|  | isCodeReviewd = true | Deploy solution | isDeployed = true |

Roles

* Customer ( C )
* Requirements Manager (RM)
* Software Designer/Lead (SD)
* Application Developer (AD)
* Tester (T)
* DevOps (DO)

Other (deferred)

* Business Analyst (BA)
* Data Scientist (DS)

Transition areas

Requirements - table

C<->RM

RM<->SDL

Task entry system (Tes) - Kiosk

SDL->Tes

Tes->AD

Tes->T

Dev Room - cubicles

SDL<->AD

SDL<->T

SDL<->DO

Deployment room - cubicles

DO

Water hole - water dispenser

C, RM, SDL, AD,T,DO

Rest room; R&R? space (toilet and treadmill)

C, RM, SDL, AD,T,DO

