# Change request log

# Team

Team #8 – Chelsea Swan and Leena Varghese

# Change Request

FEMR 137 - flag birthdays as being accurate or a guess

# Concept Location

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| --- | --- | --- |
| Step # | Description | Rationale |
| 1 | Navigated to Triage page | The birthdate is entered or calculated when checking in a new patient in Triage |
| 2 | Defined a new checkbox of whether or not the birthdate populated is accurate | This user checkbox will be the flag to note if the birthdate is accurate or a guess |
| 3 | Searched for a submit event | Once birthdate is entered/calculated, the user clicks submit to pass the data |
| 4 | Searched in UI:Views:Triage:index.scala.html | The birthdate is captured in the triage tab when checking in a new patient |
| 5 | TriageContentWrap is identified as where the UI checkbox should be placed | Because this is also where the birthdate data is saved |

**Time spent (in minutes):** 20 mins

**Impact Analysis**

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| --- | --- | --- |
| Step # | Description | Rationale |
| 1 | Followed the dependencies of “Age” variable | We can identify the dependencies of our new birthdate accuracy flag, mimic this route/map, and determine other classes that need to be modified to incorporate the flag |
| 2 | Navigate UI:Model:Triage:IndexViewModelPost | We were looking for the model for the Triage view to get the value of the new checkbox flag |
| 3 | Navigate UI:Controller:TriageController | This is where we get the object and set it to a Patient object |
| 4 | Navigate to Business:Services:System: SearchService and PatientService | Both files pass the data between the service and the data model. Search Service is used when searching a patient by ID |
| 5 | Navigate to Common:ItemModelMapper | The PatientService class requires information retrieved from the ItemModelMapper |
| 6 | Navigate to Data:Models:mysql:Patient | This object holds the patient information. |
| 7 | Navigate to Common:Models:iPatient | The previous patient object inherits from iPatient |

**Time spent (in minutes):** 45 mins

# Actualization

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| --- | --- | --- |
| Step # | Description | Rationale |
| 1 | UI:Views:Triage:index.scala.html added flag variable and label it | This checkbox will now show on the GUI on the Triage page and get user to flag if the date is accurate or not |
| 2 | UI:Model:Triage:IndexViewModelPost added new property isBirthdateCorrect | This holds the value of the flag and provides a getting and setter for this property. |
| 3 | Business:Services:System:PatientService added new variable under createPatient item for birth accuracy | So that birthdate accuracy flag data is passed with each patient |
| 4 | Business:Services:System:SearchService added new variable to retrievePatientItemByPatientID | So that when searching a patient by ID, the birthdate accuracy flag is retrieved as well |
| 5 | Common:ItemModelMapper added a new property (flag) to the PatientItem class for birthdate accuracy | This defines the variable that needs to be set and fetched from the database |
| 6 | Data:Models:mysql:Patient added get/set methods for birthdate accuracy flag to the Patient object | Entity class that maps the content of the patient table in the database and the birthdate accuracy is now part of that content |
| 7 | Common:Models:iPatient added added get/set method birthdate accuracy flag to the Patient object | This entity is passed to the upper layer and now needs to pass our new birthdate content |
| 8 | Added new column to database in patient table | Each patient should now have an associated birthdate accuracy flag value |

**Time spent (in minutes):** 67 mins

# Validation

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| --- | --- | --- |
| Step # | Description | Rationale |
| 1 | Add new patient: set the birthdate accuracy checkbox to unchecked. Run a patient search for this new person. | The retrieve data from the search should show that this patient’s birthdate is not accurate and was generated/calculated by the system |
| 2 | Add new patient: set the birthdate accuracy checkbox to checked. Run a patient search for this new person. | The retrieve data from the search should show that this patient’s birthdate is accurate and was not generated/calculated by the system |

**Time spent (in minutes):** 15 mins

**Timing**

Summarize the time spent on each phase.

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| --- | --- |
| Phase Name | Time (in minutes) |
| Concept location | 20 |
| Impact Analysis | 45 |
| Prefactoring | 0 |
| Actualization | 67 |
| Postfactoring | 0 |
| Verification | 15 |
| Total | 147 |

# Reverse engineering

# Conclusions

# It was fairly simple to identify the concept location. With the impact analysis, we were able to follow examples of other patient variables that are passed through the system. However, the actualization was difficult. As more and more classes needed to be changed, we questioned whether or not there was an easier approach to fix this change request.

Classes and methods changed:

* UI:Model:Triage:IndexViewModelPost
* UI:Controller:TriageController
* Business:Services:System: SearchService
  + retrievePatientItemByPatientID( )
* Business:Services:System: PatientService
  + createPatient( )
* Common:ItemModelMapper
* Data:Models:mysql:Patient
* Common:Models:iPatient