**Detail Rubric for Project-Specific Requirements of the Symptom Management Project**

1. Project-Specific Requirement: App identifies a “Patient” as a user with first and last name, date of birth, and other identifying information (e.g., medical record number).

“label”: “Needs Improvement”

“value”: 0

“label”: “Partially Complete: Patient has unique user ID, name, date of birth, etc.”

“value”: 1

“label”: “Complete: Patient can log in to account associated with the above info”

“value”: 2

1. Project-Specific Requirement: App defines a “Reminder” as an alarm/notification which can be set to some adjustable frequency (at least four times per day) and will trigger a “Check-In” when acknowledged.

“label”: “Needs Improvement”

“value”: 0

“label”: “Partially Complete: Repeating Reminder”

“value”: 1

“label”: “Complete: Repeating Reminder triggers a Check-In when acknowledged and has an adjustable frequency”

“value”: 2

1. Project-Specific Requirement: A Reminder triggers a “Check-In,” which is defined by the app as a unit of data associated with a Patient, a date, a time, and that Patient’s responses to various questions at that date and time.

“label”: “Needs Improvement”

“value”: 0

“label”: “Partially Complete”

“value”: 1

“label”: “Complete”

“value”: 2

1. Project-Specific Requirement: A “Check-In” includes the question, “How bad is your mouth pain/sore throat?” to which a Patient can respond, “well-controlled,” “moderate,” or “severe.”

“label”: “Needs Improvement”

“value”: 0

“label”: “Partially Complete”

“value”: 1

“label”: “Complete: Answer is associated with Check-In report data”

“value”: 2

1. Project-Specific Requirement: Check-In includes the question, “Did you take your pain medication?” to which a Patient can respond “yes” or “no”

“label”: “Needs Improvement”

“value”: 0

“label”: “Partially Complete: Patient is prompted with question and can answer (yes/no)”

“value”: 1

“label”: “Complete: Answer is stored in Check-In report data. If answer is “yes,” takes Patient user to #7 (“What time?”)”

“value”: 2

1. Project-Specific Requirement: A Check-In for a Patient taking more than one type of pain medication includes a separate question for each medication (e.g., “Did you take your Lortab?” followed by “Did you take your OxyContin?”). The Patient can respond to these questions with “yes” or “no.”

“label”: “Needs Improvement”

“value”: 0

“label”: “Partially Complete”

“value”: 1

“label”: “Complete: Can change the number and/or names of pain medications using the app. Such a change results in tailored questions, as shown above. Answer(s) are stored in Check-In report data”

“value”: 2

1. Project-Specific Requirement: During a Check-In, if a Patient indicates he or she has taken a pain medication, the Patient will be prompted to enter the time and date he or she took the specified medicine.

“label”: “Needs Improvement”

“value”: 0

“label”: “Partially Complete”

“value”: 1

“label”: “Complete: Answer(s) are stored in Check-In report data and associated with the appropriate pain medication”

“value”: 2

1. Project-Specific Requirement: A Check-In includes the question, “Does your pain stop you from eating/drinking?” To this, the Patient can respond, “no,” “some,” or “I can’t eat.”

“label”: “Needs Improvement”

“value”: 0

“label”: “Partially Complete”

“value”: 1

“label”: “Complete: Answer(s) are stored in Check-In report data”

“value”: 2

1. Project-Specific Requirement: App defines Doctor as a different type of user associated with identifying information and a unique ID. Doctor can view a list of his/her Patient users.

“label”: “Needs Improvement”

“value”: 0

“label”: “Partially Complete: Doctor has unique ID and can be assigned certain Patients. Shows Doctor user data for Doctor’s Patients”

“value”: 1

“label”: “Complete: All of the above. Doctor has a login/account.”

“value”: 2

1. Project-Specific Requirement: App allows a Patient’s *Doctor* to monitor Check-In data.

“label”: “Needs Improvement”

“value”: 0

“label”: “Partially Complete: Shows Doctor Check-In data for Patients”

“value”: 1

“label”: “Complete: Shows Doctor user a graphical display of data for Patient. This data is obtained remotely and updated at some interval, perhaps when Patient completes a Check-In”

“value”: 2

1. Project-Specific Requirement: A Doctor can perform text searches a Patient’s Check-In data by Patient name.

“label”: “Needs Improvement”

“value”: 0

“label”: “Partially Complete: The app supports exact text searches by name for a Doctor’s Patient hosted client-side”

“value”: 1

“label”: “Complete: The app supports exact text searches by name for a Doctor’s Patient hosted server-side”

“value”: 2

1. Project-Specific Requirement: A Doctor can update a list of pain medications associated with a Patient’s account. This data updates the tailored questions regarding pain medications listed above in (6).

“label”: “Needs Improvement”

“value”: 0

“label”: “Partially Complete”

“value”: 1

“label”: “Complete”

“value”: 2

1. Project-Specific Requirement: A Doctor is alerted if a Patient experiences 12 hours of “severe pain,” 16 hours of “moderate pain,” or 12 hours of “I can’t eat.”

“label”: “Needs Improvement”

“value”: 0

“label”: “Partially Complete”

“value”: 1

“label”: “Complete”

“value”: 2

1. Project-Specific Requirement: A Patient’s data should only be accessed by his/her Doctor(s) over HTTPS.

“label”: “Needs Improvement”

“value”: 0

“label”: “Partially Complete”

“value”: 1

“label”: “Complete”

“value”: 2