

IST303F19 Project Team 1

Homing, Jarvis, Jordan

Agenda

Software Development Process: Jarvis

- MIYE
- Methods of Agile

Demo: Ho Ming

- Making a Reservation
- Cancelling a Reservation
- Back Office

Code: Jordan

- Structure
- **SOLID**
- Conclusion

Q+A:



Mud In Your Eye (MiYE) Program

- The project is to create software for “Mud in Your Eye” (MiYE), a new, small hot spring health spa, located in a remote, scenic part of the US. The software must support the spa’s front desk clerks in managing service reservations and statements of service usage for customers.
- MiYE is a full-time resort spa facility, but it has just one front desk clerk on duty at any time. Front desk clerks are local people, hired primarily for their friendliness, not their computer skills—one can’t assume any sophistication in the use of computer software.

The Pre-Releases

Releases

Tags

1 week Iterations!

Tags

v1.0 ...

...

🕒 26 minutes ago 🔑 20e6498 📄 zip 📄 tar.gz

v0.3 ...

...

🕒 9 days ago 🔑 2d09b7d 📄 zip 📄 tar.gz

v0.2 ...

Verified

...

🕒 13 days ago 🔑 88d4a90 📄 zip 📄 tar.gz

v0.1 ...

Verified

...

🕒 22 days ago 🔑 b456f38 📄 zip 📄 tar.gz

The User Stories

CGU-IST303 / IST303F19-Prj-Team-1 ≡ / IST303 ◊

<input type="checkbox"/>	🔔 14 Open ✓ 46 Closed	Author ▾	Labels ▾	Projects ▾	Milestones ▾	Assignee ▾	Sort ▾
<input type="checkbox"/>	🔔 Prevent registering services at a time that's already past bug 1	#82 opened 3 days ago by HyimHK	New Issues				
<input type="checkbox"/>	🔔 fix login to show incorrect username and password bug	#73 opened 10 days ago by jtylermp	Backlog				
<input type="checkbox"/>	🔔 fast cancel enhancement 1	#71 opened 13 days ago by jtylermp	Backlog				
<input type="checkbox"/>	🔔 need alert screen for unknown guest number bug 3	#68 opened 13 days ago by jtylermp	Backlog				
<input type="checkbox"/>	🔔 register guest is broken bug 3	#66 opened 13 days ago by jtylermp	Backlog				
<input type="checkbox"/>	🔔 Allow admin to change price for reservations enhancement 3	#35 opened 29 days ago by HyimHK	Backlog				
<input type="checkbox"/>	🔔 Add ability for admin to change prices enhancement 3	#33 opened 29 days ago by HyimHK	Backlog				
<input type="checkbox"/>	🔔 Generate Service Invoice Epic 0	#32 opened 29 days ago by HyimHK	New Issues				
<input type="checkbox"/>	🔔 Add duration of stay of guest in invoice enhancement 1	#31 opened 29 days ago by HyimHK	Backlog				
<input type="checkbox"/>	🔔 Connect to a printer and print services records enhancement 5	#26 opened 29 days ago by HyimHK	Backlog				

What is needed in order to have a successful release?

- Blueskying
- Time estimates
- Observation

The “Big Board”

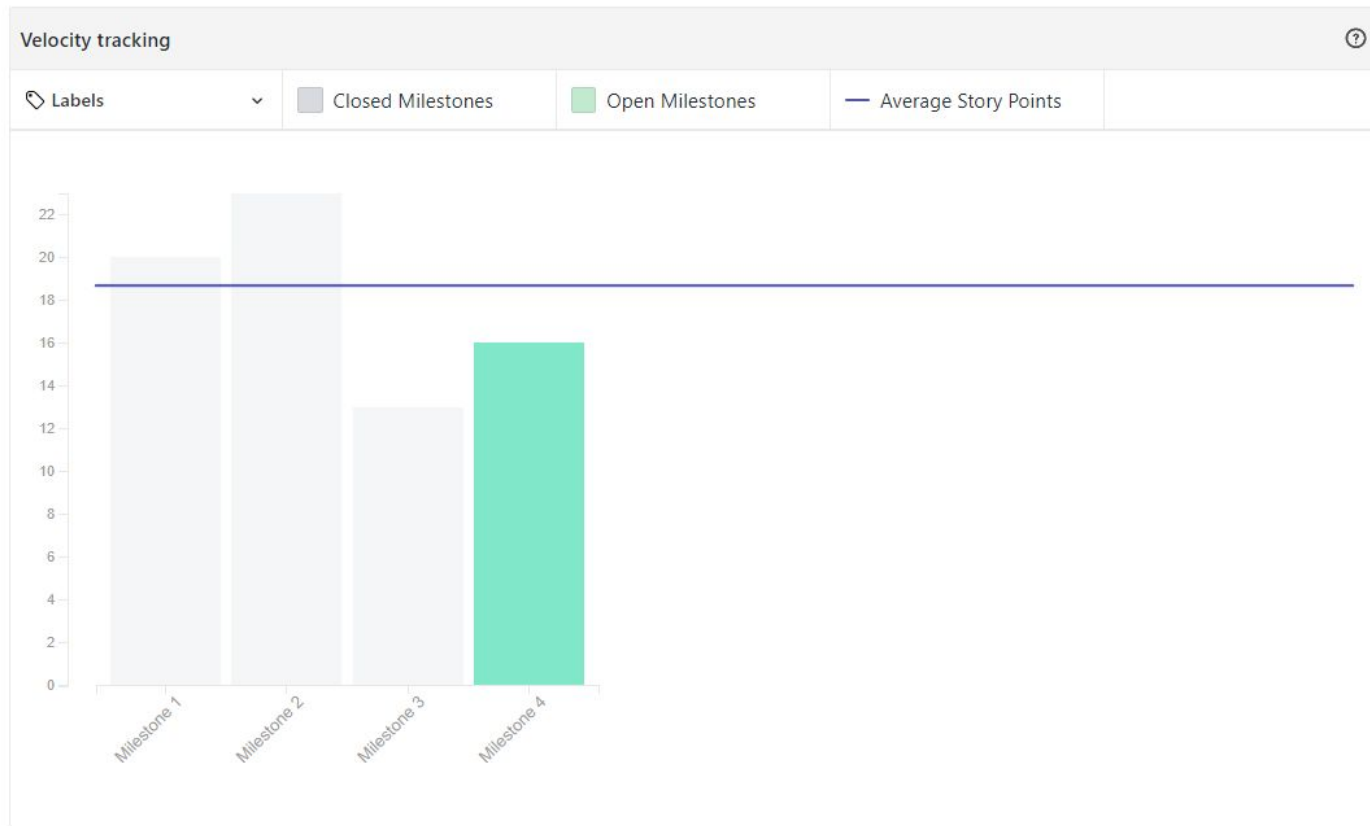
The screenshot displays the GitHub Issues interface for the repository **CGU-IST303 / IST303F19-Prj-Team-1**. The top navigation bar includes a search bar, links to Pull requests, Issues, Marketplace, and Explore, and user avatars. The repository header shows 2 Unwatched issues, 0 Stars, and 0 Forks. Below the header, tabs for Code, Issues (14), Pull requests (0), ZenHub, Projects (1), Wiki, Security, and Insights are visible. The main content area is divided into four Kanban boards:

- New Issues** (2 Issues - 1 Story Point):
 - IST303F19-Prj-Team-1 #32: Generate Service Invoice (Release 1.0). Filter by Epic Issues.
 - IST303F19-Prj-Team-1 #82: Prevent registering services at a time that's already past (Release 1.0). Bug.
- Backlog** (12 Issues - 30 Story Points):
 - IST303F19-Prj-Team-1 #66: register guest is broken (Bug).
 - IST303F19-Prj-Team-1 #71: fast cancel (Enhancement).
 - IST303F19-Prj-Team-1 #68: need alert screen for unknown guest number (Bug).
 - IST303F19-Prj-Team-1 #73: fix login to show incorrect username and password (Bug).
 - IST303F19-Prj-Team-1 #8: Create presentation for Release 1.0 (Milestone 4, Release 1.0, Enhancement).
 - IST303F19-Prj-Team-1 #9: Create presentation for Release 2.0 (Enhancement).
 - IST303F19-Prj-Team-1 #24: Support other MIYE in different languages (Enhancement).
 - IST303F19-Prj-Team-1 #25: Create a graphical user interface for the program (Enhancement).
 - IST303F19-Prj-Team-1 #26: Connect to a printer and print services records (Generate Service Invoice, Enhancement).
 - IST303F19-Prj-Team-1 #33: Add ability for admin to change prices (Enhancement).
- In Progress** (0 Issues - 0 Story Points):

What the team is currently working on, ordered by priority.
- Closed** (51+ Issues - 55 Story Points):
 - Milestone 4: Reservation System (Release 1.0, Enhancement).
 - IST303F19-Prj-Team-1 #85: Create separate menu for clerk (Enhancement).
 - IST303F19-Prj-Team-1 #72: Remove Reset All Feature from Database (Milestone 4, Release 1.0, Bug).
 - IST303F19-Prj-Team-1 #84: Create login for clerk and admin (Enhancement).
 - IST303F19-Prj-Team-1 #65: Hide credentials (Milestone 4, Release 1.0, Bug).
 - IST303F19-Prj-Team-1 #10: (Enhancement).

On the right side, there is a button for **Add a Pipeline**.

The Velocity Chart



The Burndown Chart

Milestone 1

Start **Oct 4, 2019** [Change](#) Due by **Oct 9, 2019** - **Past due by 21 days** [Change](#)

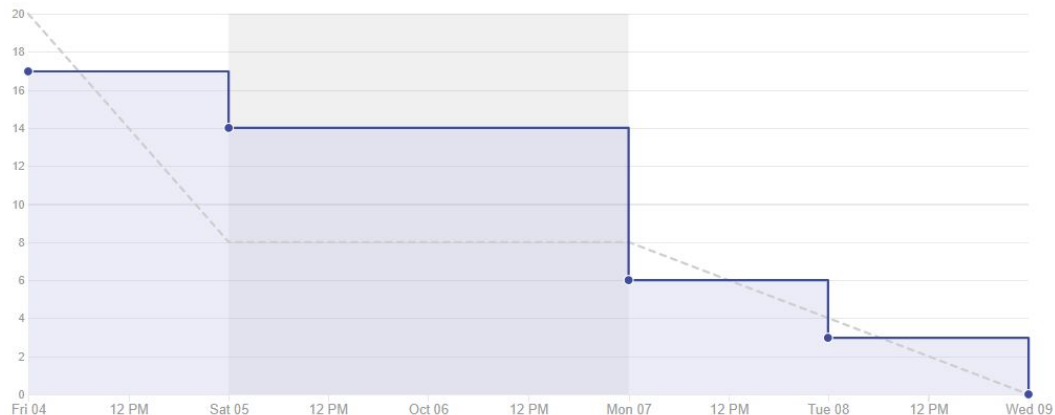
Burndown report



☐ Weekends

☐ Ideal

☒ Completed



20 Total Story Points

20 Completed / 0 Remaining

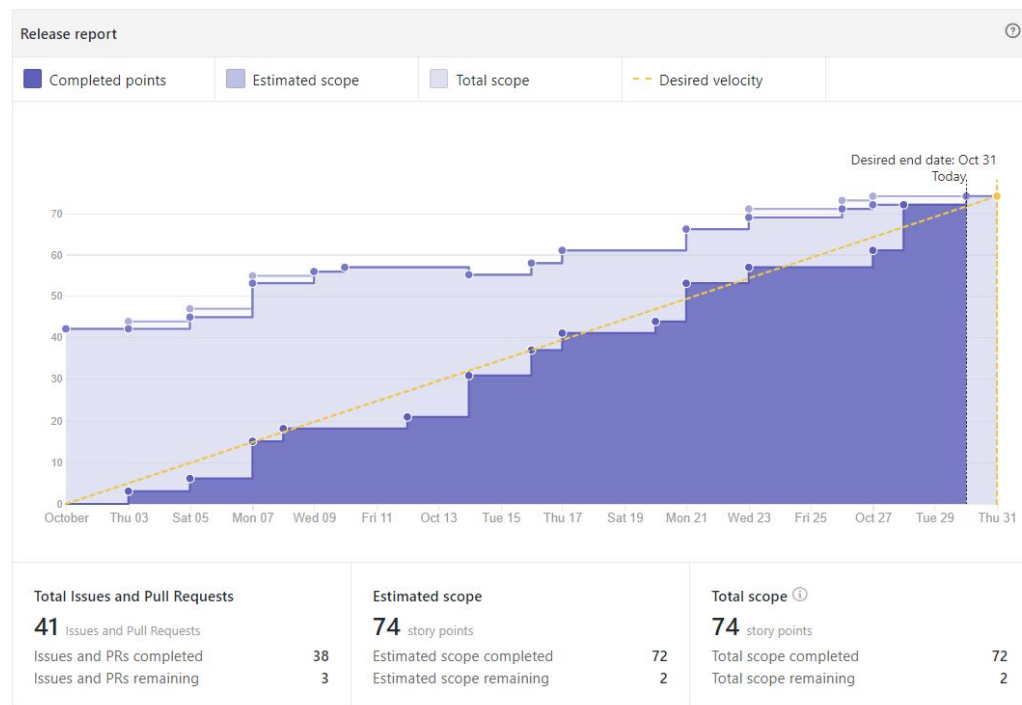
8 Total Issues and Pull Requests

8 Completed / 0 Remaining

The Burnup Chart

Release 1.0

Start **Oct 1, 2019** Desired end date **Oct 31, 2019**



The v1.0 Release

CGU-IST303 / IST303F19-Prj-Team-1

Code

Issues 14

Pull requests 0

ZenHub

Projects 1

Wiki

Security

Insights

Releases

Tags

Latest release

v1.0

20e6498

v1.0

HyimHK released this in 3 minutes

Do no add random appointments

Assets 2

Source code (zip)

Source code (tar.gz)

Databases

SQL Lite - Basic database

Lots of f strings

Read, Write, Access: Made possible by through the python scripted file

```
@Decorator.transaction
def _create_table(self, schema):
    sys.stderr.write(schema.name)
    query = """CREATE TABLE %s %s""" % (schema.name,
    sys.stderr.write("%s\n" % (query,))
    self._cursor.execute(query)
    sys.stderr.write("%s table created\n" % (schema.r
```

```
@Decorator.transaction
def _make_query(self, query):
    sys.stderr.write(query + '\n')
    self._cursor.execute(query)
    self.results = []
    for i in self._cursor:
        self.results.append(i)
```

```
@Decorator.transaction
def _insert_query(self, query):
    sys.stderr.write(query + '\n')
    self._cursor.execute(query)
```

```
def _read_data_into_table(self, file_path, columns, t
    path = os.path.join(os.path.dirname(__file__), f
    with open(path, "r") as read:
        rows = read.readlines()[1:]
        for line in rows:
            line = line.strip()
            data = line.split(',')
            query = "INSERT OR IGNORE INTO %s %s VALL
            self._insert_query(query)
```

```
@Decorator.reset_all
```

```
def create_guest_table(self):
```

```
import sqlite3
import os
import sys
import datetime
import time
from pprint import pprint as print

_RESET_ALL = True

GUEST_TABLE_NAME = "Guest"
GUEST_TABLE_FIELDS = [
    ("id", "INTEGER PRIMARY KEY AUTOINCREMENT"),
    ("first_name", "TEXT"),
    ("last_name", "TEXT"),
    ("vacation_start", "INTEGER"),
    ("vacation_end", "INTEGER"),
]

SERVICE_TABLE_NAME = "Service"
SERVICE_TABLE_FIELDS = [
    ("id", "INTEGER"),
    ("name", "TEXT"),
    ("price", "REAL"),
]

SERVICE_TYPE_TABLE_NAME = "ServiceType"
SERVICE_TYPE_TABLE_FIELDS = [
    ("service_id", "INTEGER"),
    ("subtype_id", "INTEGER"),
    ("name", "TEXT"),
]

SERVICE_TIME_TABLE_NAME = "ServiceTime"
SERVICE_TIME_TABLE_FIELDS = [
```

Clean. Concise. Relevant. Code Structure.

- Modular design for changes in client requests
- Efficient structure built to run on minimal lines of code
- Iterable modules and classes
- Spartan like environment with minimal errors after testing

```
def _print_invoice(self):  
    """ write out an invoice for a guest """  
    sys.stderr.write("printing invoice\n")  
    print(resources.strings. ENTER_GUEST_ID)  
    guest_id = int(input())  
  
    self.database.get_guest(guest_id)  
    guest_data = self.database.results[0]  
    guest = Guest(*guest_data)
```

The screenshot shows a code editor with a project structure on the left and code on the right. The project structure is as follows:

- MIYE
 - > __pycache__
 - > Database
 - > resources
 - > __pycache__
 - __init__.py 1
 - schema.py
 - strings.py
 - __init__.py
 - Appointment.py
 - Guest.py
 - Program.py 1
 - Service.py
 - __init__.py
 - database.db

The code on the right is a list of constants and prompts:

```
APPOINTMENT_DATA = "All appointment data"  
APPOINTMENT_NOT_AVAILABLE = "This reservation is not available, please p  
APPOINTMENT_TABLE_HEADER = ["ID", "DATE", "RESERVED AT", "SERVICE", "DURA  
APPOINTMENT_CANCELLED = "Appointment cancelled"  
APPOINTMENT_VOIDED = "Appointment voided"  
CHARGE_NOT_CLEARED = "The appointment will still be charged."  
CONTINUE = "Continue? (Y/N)"  
DURATION_OF_STAY = "During of stay"  
ENTER_APPOINTMENT_ID = "Please enter appointment id"  
ENTER_GUEST_INFORMATION = "Please enter {last_name},{first_name}, e.g 'Rc  
ENTER_GUEST_ID = "Please enter guest id"  
ENTER_DATE = "Please enter date (YYYY-MM-DD)"  
ENTER_PASSWORD_PROMPT = "Now enter your password: "  
ENTER_TIME = "Please enter time (HH-MM)"  
ENTER_SERVICE = "Please enter service"  
ENTER_SERVICE_TIME = "Please enter desired service time"  
ENTER_SERVICE_TYPE = "Please enter service type"  
ENTER_USERNAME = "Welcome to MIYE! Please type in your Username: "  
EXIT = "Good bye!"  
FLAVOR_TEXT = "'Give a man a program, frustrate him for a day. Teach a ma  
GUEST_HAS_OVERLAPPING_APPOINTMENT = "Guest has overlapping appointment"  
GUEST_NOT_STAYING = "Guest is not staying at the spa during the date ente  
HELLO_WORLD = "HELLO WORLD!"  
INVALID_SELECTION = "Invalid selection. Please try again."  
LOGIN_ADMIN = "You are logged in as an admin"
```

SOLID

SRP - "A class should have only one reason to change"

- The minimalism of the development lead to ease of use so that the provider/staff could spend the least amount of time in the software and be as efficient as possible while there. Thus allowing the care provider to specialize in caring not administrative work.

*Martin, Robert C. (2003)



Q+A