# RECONSIDERATION

S1, and S2 Views

# KEY DATES

Sprint 0 -> Initial Team Formation Readout

Sprint 0B -> 10/17 -> JSS Presents Solo To Recast Project.

Sprint 1 -> 11/10/2025
- 10/25 CGUI Released [This completely recast the project]
- 11/12 Gashub EC Project Announced which was as large as the CG UI.
- 11/15 Told that my entire UI would not be graded and UI was optional.

Sprint 2 -> 12/10/2025

Other
- Grade Submissions Due -> 12/15/2025
- JSS Final Code Updates with All Graduate Features -> 12/21/2025
- JSS Request for Reconsideration -> 12/12/2025

# PROMISES MADE – PROMISES KEPT

Core Rubric Tasks - Portal User-Mode Tasks
- Auth Controller in basic form
- Cart Management
- Park Management
- Bookings, and User State

Extended Rubric Tasks(Logical Extensions of Project)
- Sales Product Catalogue(Day Tickets, 2-Day Tickets, Bike Rentals, Food, Campsites)
- GIS & General Maps Interfaces
- Driving Directions?

Payment Simulation / Production Test
- Payments
- Credit Card Management
- Payment Gateways (Stripe, Other)
- API to UI Integration – Basic
- API to UI Integration – Backoffice DB Synchronization

Unit Tests
- Unit Testing Processes for Each Endpoint
- UI to API Testing
- Services Testing

- Data Seeds in JSON format [S1]
- Data Seeds in SQL Insert format [S1] -> UI PROJECT DIRECTOR
- Data Integrity (Constraints, Nullables, Encrypt/Decrypt, Foreign Keys) [S2]
- Installer Programs with Seed Data [CLI]

Security Tasks [ALL Included in S2 Repo]
- User Session Logging
- Endpoint Logging
- Credit Card Hash & Encryption
- User Hash & Encryption
- Notifications Email/SMS – (New User, New Booking Confirmation)
- 2Factor Extensions?

UI Extensions – For Exceeds Options [All Included And More]
- Better Security Reporting
- Better User Management
- User Profile Management
- Driving Directions
- GIS Options
- Page Level Locking (PLL)
- Notifications Email/SMS – (New User, New Booking Confirmation)
- 2Factor Extensions?
- User Care? Help Contacts?
- Employee Session Management

Data Operations

[JSS Options As Grad Student (As Can Be Completed)]

# SUMMARY: JOHN VS RUBRIC

Required (EPs/UI Screens) ~ 65

Delivered (Eps/UI Screens) > 250

Required Features Decomp ~19

Delivered All 18/19 By Sprint2-Final

Derived/Optional Features Industry ~ 18

Delivered All 12/18 By Sprint2-Final

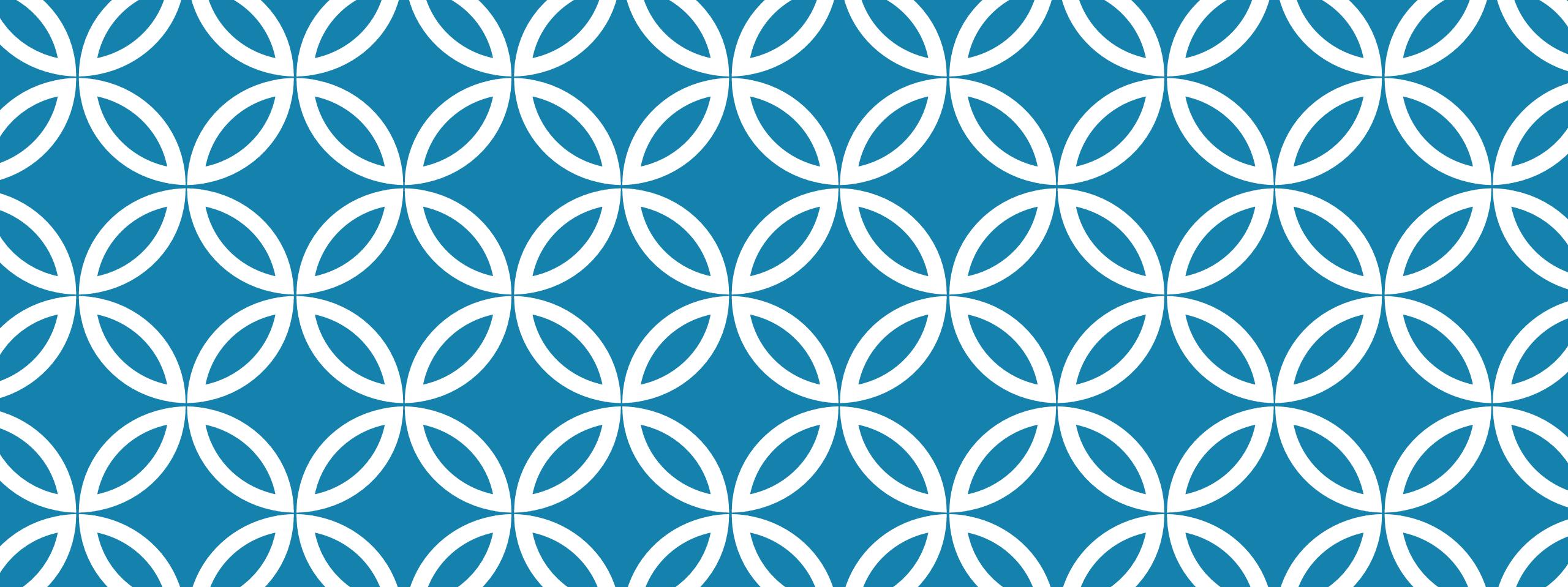Delivered All 18 By Grade Submission 12/15.

OTHER GRAD ENHANCEMENTS -> 1/2 Required

Delivered AN AMAZING 55 Additional Features

Delivered Electron, Android, IoS Dev Packages For Ionic Extensions.

Delivered 3 UIs vs One

Delivered a Comprehensive Park Backoffice on FusionOpen Solutions

# SUCCESSES

12/21

# MEETING THE RUBRIC REQUIREMENTS & OUTPERFORMING OTHER TEAMS.

**END STATE REQUIRED FEATURES**

| Class | Feature Number | Feature Name | ORIGINATOR | Sprint0 Team1 | Sprint0 Team2 | Sprint0 Team3 | Sprint0B Team5 | Sprint1 Team1 | Sprint1 Team2 | Sprint1 Team3 | Sprint1 Team5 | Sprint2 Team1 | Sprint2 Team2 | Sprint2 Team3 | Sprint2 Team5 | 15-Dec Team5 | XMAS(21) Team5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Required | 1 | Project Plan | CG-GLOBAL | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Required | 2 | AZURE BACKLOG | CG-GLOBAL | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Required | 3 | SQL Database | CG-GLOBAL | NO | YES | NO | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Required | 4 | PARKS EPS | CG-GLOBAL | NO | YES | NO | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Required | 5 | 5 EP BACKOFFICE | CG-GLOBAL | NO | YES | NO | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Required | 6 | MANAGEMENT SCREENS -> PARKS ONLY | CG-GLOBAL | NO | YES | NO | YES | NO | NO | NO | YES | ?? | ?? | ?? | YES | YES | YES |
| Required | 7 | 12-15 EP BACKOFFICE | CG-GLOBAL | NO | YES | NO | YES | NO | NO | NO | YES | YES | YES | YES | YES | YES | YES |
| Required | 8 | BOOKING EPS | CG-GLOBAL | NO | NO | NO | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Required | 9 | CARD VALIDATION LAST4 SECURITY | CG-GLOBAL | NO | NO | NO | YES | NO | NO | NO | YES | NO | NO | NO | YES | YES | YES |
| Required | 10 | RESERVATION CANCELLATION | CG-GLOBAL | NO | NO | NO | YES | NO | NO | NO | YES | ?? | ?? | ?? | YES | YES | YES |
| Required | 11 | END TO END TRANSACTIONS (UI TO BACKEND) | CG-LILY-S2 | NO | NO | NO | YES | NO | NO | NO | YES | YES | YES | YES | YES | YES | YES |
| Required | 12 | PARK CAPACITY UPDATE | CG-GLOBAL | ?? | YES | NO | N/A | YES | YES | YES | YES | ?? | ?? | ?? | YES | YES | YES |
| Required | 13 | CGUI | CG-LILY-S2 | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | YES | YES | YES | YES | YES | YES |
| Required | 14 | CG UI TO BACKOFFICE CONNECTORIZATION, FIELD MODS, OTHER | CG-GLOBAL | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | YES | YES | YES | YES | YES | YES |
| Required | 15 | CARD VALIDATION FULL - GOOGLE PAY VIA CHROME BROWSERS | CG-GLOBAL | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | ?? | ?? | ?? | YES | YES | YES |
| Required | 16 | CART SERVICE CHANGES TO SUPPORT APIS | CG-LILY-S2 | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | YES | YES | YES | YES | YES | YES |
| Required | 17 | PARK SERVICE CHANGES TO SUPPORT APIS | CG-LILY-S2 | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | YES | YES | YES | YES | YES | YES |
| Required | 18 | CG TO DTO SERVICE TRANSLATION | CG-LILY-S2 | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | YES | YES | YES | YES | YES | YES |
| Required | 19 | CARD VALIDATION FULL - GENERAL | CG-GLOBAL | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | S2-N/A | YES | YES | YES | NO | NO | YES |

**OPTIONAL -DERIVED FEATURES - FROM INDUSTRY STANDARDS - OR RUBRIC BASICS**

| Class | Feature Number | Feature Name | ORIGINATOR | Sprint0 Team1 | Sprint0 Team2 | Sprint0 Team3 | Sprint0B Team5 | Sprint1 Team1 | Sprint1 Team2 | Sprint1 Team3 | Sprint1 Team5 | Sprint2 Team1 | Sprint2 Team2 | Sprint2 Team3 | Sprint2 Team5 | 15-Dec Team5 | XMAS(21) Team5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Optional-Derived | 1 | GITHUB REPO - SOURCE | ONE OR BOTH | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Optional-Derived | 2 | AZURE REPO - SOURCE | ONE OR BOTH | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Optional-Recommended | 3 | PAYMENT SIMULATION - TRANSACTION IDS | GC-CLASS-DISCUSS | S2-N/A | S2-N/A | S2-N/A | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Optional-Derived | 4 | PAYMENT CHECK BEFORE BOOKING | DERIVED | S2-N/A | S2-N/A | S2-N/A | YES | N/A | N/A | N/A | N/A | NO | YES | NO | YES | YES | YES |
| Optional-Derived | 5 | BACKOFFICE TO SUPPORT SECURITY AND AUTH (20+ TABLES) | DERIVED | S2-N/A | S2-N/A | S2-N/A | YES | NO | NO | NO | YES | NO | NO | NO | YES | YES | YES |
| Optional-Derived | 6 | SIMPLE LOGIN OR MAPPED LOGIN PARAMETERS (IE AUTH RESULT) | DERIVED | S2-N/A | S2-N/A | S2-N/A | YES | N/A | N/A | N/A | YES | NO | YES | NO | YES | YES | YES |
| Optional-Required | 7 | REVIEW MANAGER | OPTIONAL | S2-N/A | S2-N/A | S2-N/A | YES | N/A | N/A | N/A | YES | NO | NO | NO | YES | YES | YES |
| Optional-Required | 8 | RESERVATION MANAGER | OPTIONAL | S2-N/A | S2-N/A | S2-N/A | YES | N/A | N/A | N/A | YES | NO | NO | NO | YES | YES | YES |
| PreviousClasses | 9 | OTHER UI - NON CG | OPTIONAL | S2-N/A | S2-N/A | S2-N/A | YES | N/A | N/A | N/A | YES | NO | NO | NO | YES | YES | YES |
| PreviousClasses | 10 | OTHER APP - IONIC CAPACITOR | OPTIONAL | S2-N/A | S2-N/A | S2-N/A | YES | NO | NO | NO | YES | NO | NO | NO | YES | YES | YES |
| Optional-Derived | 11 | REFUNDS TO CARDS FROM RESERVATION MANAGER | DERIVED | S2-N/A | S2-N/A | S2-N/A | YES | NO | NO | NO | YES | ?? | ?? | ?? | YES | YES | YES |
| Optional-Derived | 12 | CG PARK REVIEWS ADD | INTUITIVE | S2-N/A | S2-N/A | S2-N/A | N/A | N/A | N/A | N/A | N/A | NO | NO | NO | YES | YES | YES |
| Optional-Derived | 13 | PARK CALENDAR - BY PARK BY TRANSACTION | DERIVED | S2-N/A | S2-N/A | S2-N/A | NO | NO | NO | NO | NO | ?? | ?? | ?? | NO | NO | YES |
| Optional-Derived | 14 | PARK CALENDAR - BY PARK BY DAY | DERIVED | S2-N/A | S2-N/A | S2-N/A | NO | NO | NO | NO | NO | ?? | ?? | ?? | NO | NO | YES |
| Optional-Derived | 15 | PARK CAPACITY CHECK BEFORE PAYMENT | DERIVED | S2-N/A | S2-N/A | S2-N/A | NO | NO | NO | NO | NO | NO | YES | NO | NO | YES | YES |
| PreviousClasses | 16 | CLI | OPTIONAL | S2-N/A | S2-N/A | S2-N/A | NO | NO | YES | NO | NO | YES* | NO | NO | NO | YES | YES |
| PreviousClasses | 17 | CLI - SEEDING | OPTIONAL | S2-N/A | S2-N/A | S2-N/A | NO | NO | YES | NO | NO | YES* | NO | NO | NO | YES | YES |
| Optional-Recommended | 18 | PAYMENT PROCESSING - TEST MODE - STRIPE OTHER | GC-CLASS-DISCUSS | S2-N/A | S2-N/A | S2-N/A | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |

- The Rubric Included Very Specific Requirements which had to be met by all teams(1), and another set of requirements which could be derived by Graphics, Conversations in Class, Previous Classes, and Industry Standards(2). There were 37 Total Features More than in the Previous year.
- JSS Significantly Outperformed the Other Teams in all Sprints despite being by himself versus 3 and 4 man teams.

# DELIVERING MORE THAN 50 GRADUATE FEATURES

| | | GRADUATE FEATURES | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Sprint0B | Sprint1 | Sprint2 | 15-Dec | XMAS |
| Class | Feature Number | Feature Name | ORIGINATOR | Team5 | Team5 | Team5 | Team5 | Team5 |
| Grad Features | 1 | VISUALIZATIONS | JSS-RAPID | NO | YES | YES | YES | YES |
| Grad Features | 2 | INSTRUCTOR HOST LOGIN 24X7 UI | JSS-RAPID | | YES | YES | YES | YES |
| Grad Features | 3 | INSTRUCTOR API LOGIN 24X7 UI | JSS-RAPID | | YES | YES | YES | YES |
| Grad Features | 4 | USER PROFILE CART MASTER VIEW (ALL SALES) | JSS-RAPID | | YES | YES | YES | YES |
| Grad Features | 5 | THREE TIER CART(CART MASTER, CART, CART-ITEM) | JSS-RAPID | | YES | YES | YES | YES |
| Grad Features | 6 | SECURITY CENTER - 8 POINT (Actions,Log,Syslog,etc) | JSS-RAPID | | YES | YES | YES | YES |
| Grad Features | 7 | AUTH | JSS-RAPID | | YES* | YES | YES | YES |
| Grad Features | 8 | GLOBAL RESERVATION SUPERUSER (INCLUDING DOUBLE ACCOUNTING) | JSS-RAPID | | NO | YES | YES | YES |
| Grad Features | 9 | TRANSACTION MANAGER | JSS-RAPID | | YES | YES | YES | YES |
| Grad Features | 10 | REFUND MANAGER | JSS-RAPID | | YES | YES | YES | YES |
| Grad Features | 11 | PARK REPORTS | JSS-RAPID | | YES | YES | YES | YES |
| Grad Features | 12 | USER MANAGER | JSS-RAPID | | YES | YES | YES | YES |
| Grad Features | 13 | EMPLOYEE MANAGER | JSS-RAPID | | YES | YES | YES | YES |
| Grad Features | 14 | PRICING ENDPOINT MANAGER | JSS-RAPID | | YES | YES | YES | YES |
| Grad Features | 15 | GLOBAL PRICING | JSS-RAPID | | YES | YES | YES | YES |
| Grad Features | 16 | STATE PRICING | JSS-RAPID | | YES | YES | YES | YES |
| Grad Features | 17 | PARK PRICING | JSS-RAPID | | YES | YES | YES | YES |
| Grad Features | 18 | STANDARD SQL EP SUPPORT | JSS-RAPID | | YES | YES | YES | YES |
| Grad Features | 19 | AZURE HOSTING | JSS-RAPID | | YES | YES | YES | YES |
| Grad Features | 20 | GOOGLE CLOUD HOSTING | JSS-RAPID | | YES | YES | YES | YES |
| Grad Features | 21 | USER HELP | JSS-RAPID | | YES | YES | YES | YES |
| Grad Features | 22 | USER PROFILE | JSS-RAPID | | YES | YES | YES | YES |
| Grad Features | 23 | PARK PICTURE WALL | JSS-RAPID | | YES | YES | YES | YES |
| Grad Features | 24 | DRIVING DIRECTIONS | JSS-RAPID | | YES | YES | YES | YES |
| Grad Features | 25 | MOBILE WEB SUPPORT APP.547BIKES.INFO | JSS-RAPID | | YES | YES | YES | YES |
| Grad Features | 26 | CG UI USER ACTIONS NORMALIZATIONS - 590 USER STORIES | JSS-RAPID | | NO | YES | YES | YES |
| Grad Features | 27 | CG CART SPINNERS ON CHANGE IN ACTION | JSS-RAPID | | NO | YES | YES | YES |
| Grad Features | 28 | CG MANAGER FEATURES | JSS-RAPID | | NO | YES | YES | YES |
| Grad Features | 29 | CG PARK REVIEWS VIEW ALL | JSS-RAPID | | NO | YES | YES | YES |
| Grad Features | 30 | GLOBAL PARK REVIEW CALCULATION – ALL PARKS | JSS-RAPID | | YES | YES | YES | YES |
| Grad Features | 31 | GLOBAL PARK REVIEW CALCULATION – SINGLE PARK | JSS-RAPID | | YES | YES | YES | YES |
| Grad Features | 32 | ACTIONS CONTROLLER (RUN SERVER SIDE PROCESSES) | JSS-RAPID | | NO | YES | YES | YES |
| Grad Features | 39 | SUPER-PARK (Support for Camping, Skiining, Tents, etc) | JSS-RAPID | | NO | YES | YES | YES |
| Grad Features | 33 | SECURITY CENTER - 9 POINT (Notifications Sent) | JSS-RAPID | | NO | NO | NO | YES |
| Grad Features | 34 | EMAIL NOTIFICATION | JSS-RAPID | | NO | NO | NO | YES |
| Grad Features | 35 | MULTI-PLATFORM API NORMALIZATION | JSS-RAPID | | NO | NO | NO | YES |
| Grad Features | 36 | MOBILE WEB SUPPORT CG | JSS-RAPID | | NO | NO | NO | YES |
| Grad Features | 37 | FEATURE NORMILIZATION CG & PARKS UI | JSS-RAPID | | NO | NO | NO | YES |
| Grad Features | 38 | TWO FACTOR AUTHENTICATION | JSS-RAPID | | NO | NO | NO | NO |
| | | PORTED FEATURES FROM OTHER TEAMS | | | | | | |
| Legacy Features | 1 | AZURE AUTH | TEAMCHANGEREQ | NO | YES | YES | YES | YES |
| Legacy Features | 2 | AZURE SERVICE BUS | TEAMCHANGEREQ | NO | YES | YES | YES | YES |
| Legacy Features | 3 | AZURE AUTH REGISTRATION | TEAMCHANGEREQ | NO | YES | YES | YES | YES |
| Legacy Features | 4 | 590 TEAM HTML CSS TEMPLATES (FEATURES, FEATURE LAYOUTS) | TEAMCHANGEREQ | YES | YES | YES | YES | YES |
| Legacy Features | 5 | REACT MATERIAL UI TEMPLATES | TEAMCHANGEREQ | NO | YES | YES | YES | YES |
| | | VENDOR SERVICES & TECHNOLOGIES IMPLEMENTED | | | | | | |
| Vendor Features | 1 | CTS GRID HOSTING | VENDOR-ARCH | YES | YES | YES | YES | YES |
| Vendor Features | 2 | CTS VDI DESKTOP - LINUX DEBIAN WITH GITHUB, VITE, YARN, NODEJS | VENDOR-ARCH | YES | YES | YES | YES | YES |
| Vendor Features | 3 | CTS APP HOSTING (WEBSITE - APACHE) | VENDOR-ARCH | YES | YES | YES | YES | YES |
| Vendor Features | 4 | CTS APP HOSTING (API) | VENDOR-ARCH | YES | YES | YES | YES | YES |
| Vendor Features | 5 | CAP GEMENI - REACT PROJECT STRUCTURE | VENDOR-ARCH | YES | YES | YES | YES | YES |
| Vendor Features | 6 | CAP GEMENI - SCREEN BLOCKING | VENDOR-ARCH | YES | YES | YES | YES | YES |
| Vendor Features | 7 | CAP GEMENI DEVELOPMENT PROCESSES AND MANAGEMENT | VENDOR-ARCH | YES | YES | YES | YES | YES |
| Vendor Features | 8 | GREENVILLE UI JSON BASICS | VENDOR-ARCH | YES | YES | YES | YES | YES |
| Vendor Features | 9 | GREENVILLE RAPID DEVELOPMENT PROCESSING | VENDOR-ARCH | YES | YES | YES | YES | YES |
| Vendor Features | 10 | GREENVILLE PLL PROCESS LOCKING | VENDOR-ARCH | YES | YES | YES | YES | YES |
| Vendor Features | 11 | GREENVILLE PLL QUERY CASHING | VENDOR-ARCH | YES | YES | YES | YES | YES |
| Vendor Features | 12 | GREENVILLE C# ENDPOINT TEMPLATES | VENDOR-ARCH | YES | YES | YES | YES | YES |

I delivered as of Today More than 50 Graduate Features, and Now have the CG UI At Feature Parity with the S1 Parks UI (home.547bikes.info) which was a significant achievement.

# COMPLETING A STAGGERING AMOUNT OF WORK VS AVG

| | S1 | S2 | EXTRA | JSS | OTHER/CG | T5/CG | TOTALS | JSS% | JSS+Team | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| UIHTML | 11 | 16 | 14 | 36 | 5 | 8 | 49 | 73.47% | 89.80% | Pravani Built SSO Pages |
| UIREACT | 0 | 25 | 8 | 9 | 16 | 9 | 34 | 26.47% | 52.94% | Lily Did S1 Design EndToEnd |
| UIREACTPORTS(MODS) | 0 | 4 | 3 | 7 | 0 | 0 | 7 | 100.00% | 100.00% | |
| UIIONIC | 0 | 0 | 11 | 11 | 0 | 0 | 11 | 100.00% | 100.00% | Slave to HTML Front-End |
| CLIMANAGER | 0 | 0 | 10 | 10 | 0 | 0 | 10 | 100% | 100.00% | CLI has approximately 10 C# Files Ported from Fall2024 |
| UIMANAGER | 2 | 0 | 22 | 18 | 0 | 0 | 18 | 100.00% | 100.00% | Manager Required For S2 |
| | 13 | 41 | 68 | 91 | 21 | 17 | 129 | | | |
| | | | | | | | | | | |
| BACKOFFICE - EPS | 5 | 12 | 146 | 164 | 1 | 0 | 165 | 99.39% | 99.39% | Kaleb Wrote Auth, 33 Tables * Avg of 5 EPs |
| DTOs | 0 | 2 | 8 | 10 | 0 | 0 | 10 | 100.00% | 100.00% | |
| | | 14 | 154 | 174 | 1 | 0 | 175 | 99.43% | 99.43% | |
| | | | | | | | | | | |
| UNITS OF WORK | | | | 265 | 22 | 17 | 304 | 87.17% | 92.76% | As Designed with Combined JSS & LCG |

| Minimalistic Units of Work | | |
|---|---|---|
| React | | 25 |
| DTOs | | 2 |
| Services | | 2 |
| EPs | | 5 |
| Tables/Models | | 14 |
| Contexts | | 1 |
| Data Architecture | | 5 |
| Project Plan/Slides | | 10 |
| UG Teams with 4 People in Minimalism | | 64 |
| | 16 | Units of Work Each |

| JSS v AVG | 248 | 16 | 15.5 |
|---|---|---|---|

- I was asked to do 15.5 Times the work of the Average Student in the class Due to unknown comments from a peer who had never taken either class 547/590 in the series.

- I completed more than 20X the work completed by 2 Graduate peers from the Spring Term just in this class.

# INCREDIBLE PERFORMANCE

Regardless of Other Teams and Class Structure:

- I delivered 2 Entire UI platforms running off the same Backoffice.
- I delivered a 6$^{th}$ Generation BackOffice which supports Azure, Google/Linux Hosted Services, an Actions/AI Controller, and 33 Hardened Tables.
- I delivered a world class professional cart service.
- I am improving the Payment and Park Calendar Services which will be sufficient to handle public companies in the near future and commercial product status.
- The BackOffice has more than 175EPs which is more than 10X the requirement in the Rubric.
- On the CG Platform alone I more than doubled the number of active Pages in the UI provided to the class to get it to parity with the ParksHome.
- The Parks DB supports ANY PARK TYPE ANYWHERE IN THE WORLD
- The 590 Auth Architecture supports third party and social logins with Standard ERP tools or Azure integration.

After taking a step back and looking at a minimal breakout of tasks which was not possible without reviewing the CG UI in detail, 65 Units of work were possible including EP's and Screens. My Platform was more than 4X bigger, and I did more than 15X more work than the average user in the class.

# IN SUMMARY….

I delivered the most sophisticated platform, which looked the best, and worked the best.

I completed more tasks and in every area of the Code Stack. (Full Code Development)

I completed complex analysis operations, and met with the management of the department.

I solved a difficulty problem with other teammates.

I had near 100% on my academic work in the class with extra credit applied.

I believe regardless of anyone else's work I should have received an A for my project.

TA Involvement was a negative

- The Templates suggested by the TA with 6 slides and very specific demonstrations are well below the level of a 5XX class and not inline with the previous two classes.

# ATTACHMENTS

Updated Repos with All Current Code as of Midnight 12/21.

Daily incremental backups of key repos on demand as necessary.

Code Analysis Spreadsheet.

Feature Analysis Spreadsheet

DB Analysis Spreadhseet.

Updated Project Repo with Previous Slides and Recordings.

# COMMENTS FROM KYLE/CG TEAM

Code Checking on DTO EPS is done by Microsoft C# Code Points.

- All Variables have to match the types in Models
- All Variables have to conform to the Context.
- It is not possible to name a field incorrectly, or provide the wrong value to a Controller EP.
- The State of the GC Endpoints for Cart, and Parks which included multi-plexed data types had to be tested to high degree of tolerances or the UI simply didn't work at all. It shows a blank screen and no parks.
- Error Checking inside an Endpoint which is creating multiple database records is not necessary as when the values conform the Insertions don't fail.

Compilation

- My System has been running Live on Azure since 10/10. Instructors have a login.
- I have made both the UI, and API available to live inspection a much higher standard than other classmates.
- The error discussed was that Reverse Engineering renamed a table to TaxtableU, and I renamed it to TaxtableUS at some point as it didn't make sense. The "Extra Table" was copied when the 5 production repos were multiplxed into the Github final submission.
- There were no compilation errors in any of the subprojects and the comments were in error.

C# Demonstrations

- C# was encluded in every endpoint however to do standard select all or select by ID only a few lines of code were needed.
- C# services are used for notification, and I/O Actions, and the CLI which was added and never demonstrated.
- C# checkers for Credit card validation and Stripe payments forthcoming.

END To End Presentations In Sprints Vs Just Swagger

- I provided front to back Transaction demonstrations required for Final in S1 rather than a Swagger only presentation. Comments of not complying were ridiculous.

OTHER CONCERNS

- The CG UI completely required almost an entirely new app was delivered less than a month before final. It was over 2 weeks late from initial promise date.
- The Gashub EC project effectively restructured the grading for all students, so it could not be ignored as it was a 15point change. Ignoring the EC project put you more than a grade below the rest of the class.
- TA's for this class were not familiar with the previous two projects ran last fall in F2024, and S2025, and thus my Matrixed Code project did not resonate.

# IN CONCLUSION

My Version of the CG App was significantly better than the other students. It had a full Auth controller by S2. It had Park Review Support, Maps and Driving Directions.

My own UI was significantly better than the CG Reach UI by orders of magnitude and was demonstrated in final Form in Sprint1.

My Parks Database was larger, national and North American and supported both Dirtbikes as well as other services.

My Cart was significantly higher standard.

I delivered a Full Security Center, A Visualization Toolset, and a Mobile Computing Environment. I support all Azure hosted tools, and CTS Google Cloud tools.

I delivered all perfect working order EP's more than 200 of them which in itself is an amazing achievement.

I did not have time to incorporate full CC validation as I had to complete the entire new app architecture for the CG UI in the last month of class. I missed on 1 out of 19 required components, and built more than 50 additional ones.

# LIVE LOGINS TO API AND UI

Parks API available on Azure in parksapi.547bikes.info

- Admin/spirit as the password

cg2.547bikes.info

- parkguest@547bikes.info
- Test1234
- OR
- Register your own account via the CG UI….

Parks UI available on Azure at home.547bikes.info

- parkguest@547bikes.info
- Uses same backoffice and has more features, and a cleaner interface.