Design Review

Olympic Developers

Team Introduction

Project Title: Olympic Sport Training Camp Management Portal

Team Mentor: Melissa Rose

Developers:

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Introduction to HYPO2

HYPO2 a high altitude training center for world class athletes.
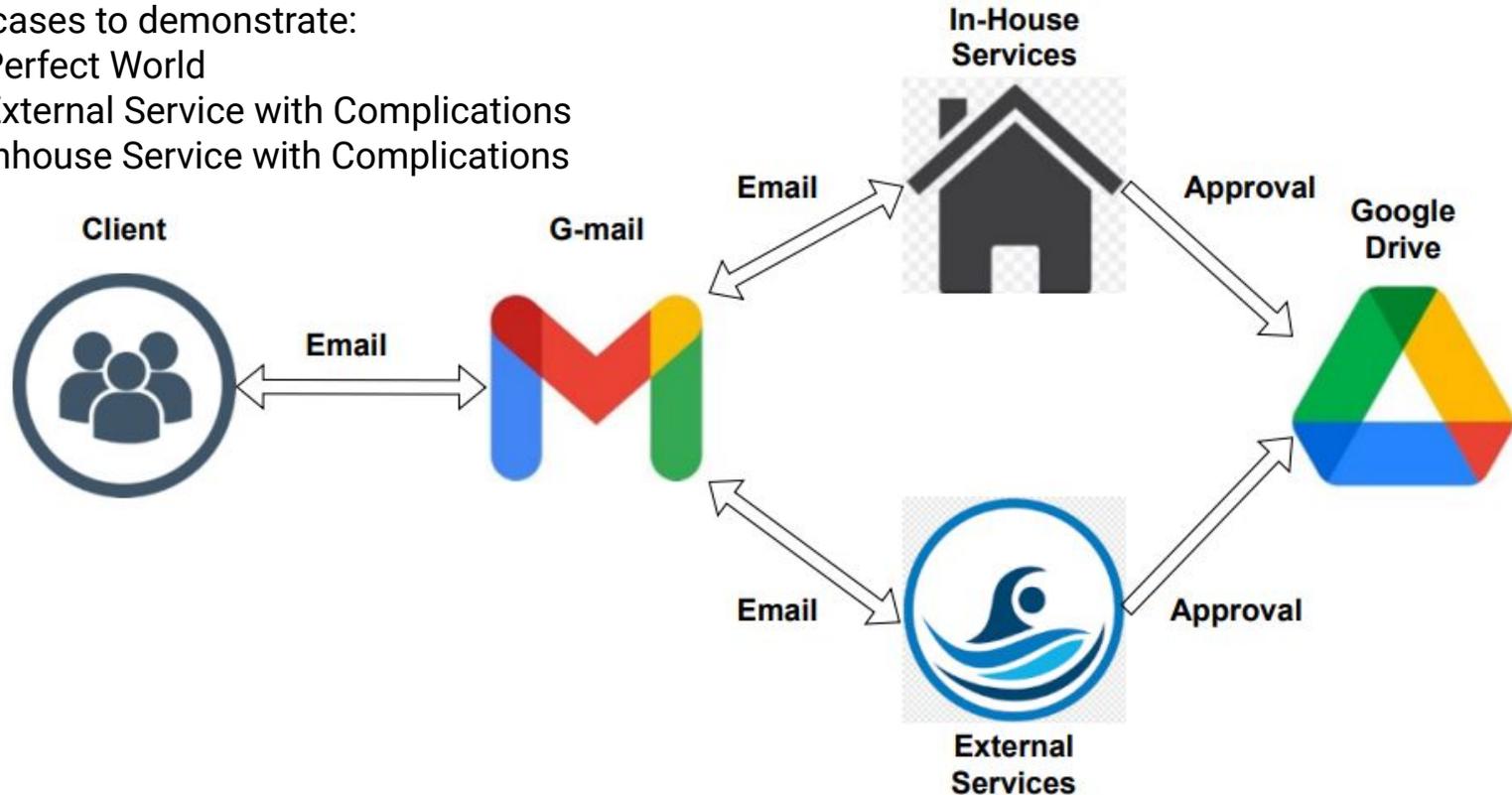
Sean Anthony
Founder and CEO
of HYPO2

Importance of Hypo2

- 40 plus countries have traveled to HYPO2 training camps
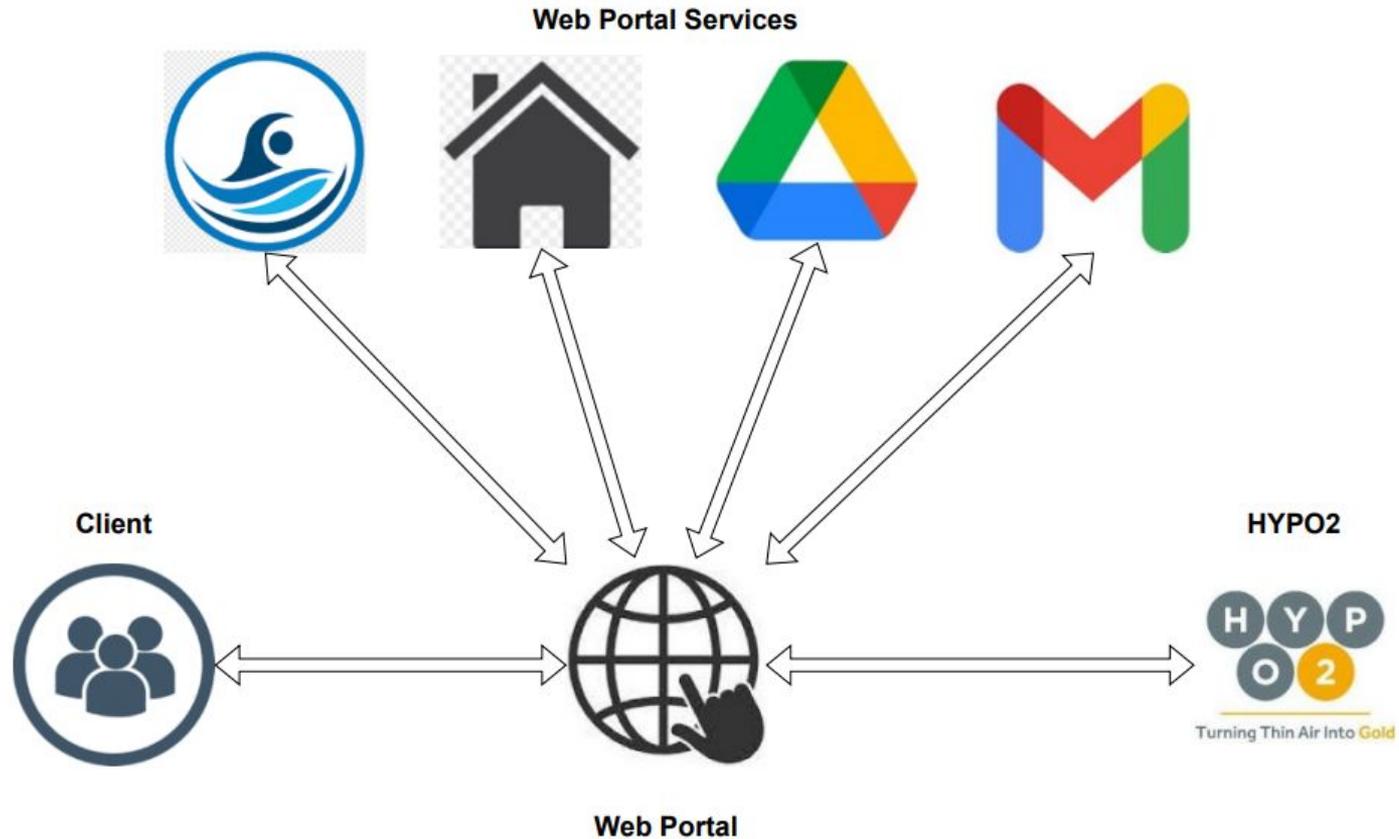- 85 medals have been received over the last 2 Olympics by HYPO2 clients

Athletes who trained in Flagstaff for the
2020 SUMMER OLYMPIC & PARALYMPIC GAMES

HYPO2
Turning Thin Air
Into Gold

■ OLYMPICS ■ PARALYMPICS

AUSTRALIA
Charlie Hunter
Dane Bird-Smith
Georgia Griffith
Linden Hall
Matthew Clark
Morgan McDonald
Patrick Tiernan
Peter Bol
Jack McLoughlin
Kareena Lee
Kiah Melverton
Zac Stubblety-Cook
Aaron Royle
Jake Birtwhistle
Deon Kenzie
Jaryd Clifford
Michael Roeger
Sam Harding

ARGENTINA
Delfina Pignatiello
Julia Sebastian

BELGIUM
Abdi Bashir
Valerie Barthelemy
Jelle Geens
Marten van Riel

BOTSWANA
Nijel Amos

BRAZIL
Aline Rodrigues
Beatriz Pimentel Dizotti
Fernando Scheffer
Guilherme Costa
Stephanie Balduccini
Jady Malavazzi

CANADA
Andrea Seccafien
Benjamin Preisner
Cameron Levins
Gabriela DeBues-Stafford
Geneviève Lalonde
John Gay
Julie-Anne Staehli
Kate van Buskirk
Lucas Bruchet
Mathieu Bilodeau
Matthew Hughes
Melissa Bishop-Nriagu
Mohammed Ahmed
Natasha Wodak
Kelsey Wog
Kylie Masse
Ruslan Gaziev
Sydney Pickrem
Joanna Brown
Guillaume Ouellet
Liam Stanley
Nate Riech
Abi Tripp
Alec Elliot
Aurelie Rivard
Camille Berube
James Leroux
Katarina Roxon
Morgan Bird
Nicholas Guy Turbide
Sabrina Duchesne
Shelby Newkirk
Tammy Cunnington
Tess Routliffe
Zach Zona
Jessica Tuomela
Stefan Daniel

CZECH REPUBLIC
Jan Micka

DENMARK
Kim Klüver Christiansen

FINLAND
Camilla Richardsson
Sara Kuivisto
Topi Raitanen

FRANCE
Vincent Luis

GERMANY
Amos Bartelsmeyer
Christina Hering
Gesa Felicitas Krause
Hanna Klein
Hendrik Pfeiffer
Katharina Trost
Konstanze Klosterhalfen
Lea Meyer
Mohammed Mohumed
Richard Ringer
Robert Farken
Annika Bruhn
Celine Rieder
Fabian Schwingenschlögl
Henning Mühleitner
Vico Merklein

GREAT BRITAIN
Andrew Butchart
Callum Hawkins
Chris Thompson
Eilish McGolgan
Jake Heyward
Jake Wightman
Jemma Reekie
Katie Snowden
Laura Muir
Marc Scott
Steph Twell
Tom Bosworth
Zak Seddon
Abbie Wood
Aimee Willmott
Calum Jarvis
Daniel Jervis
Duncan Scott
Freya Anderson
James Guy
James Wilby
Joe Litchfield
Kathleen Dawson
Laura Stephens
Luke Greenbank
Max Litchfield
Molly Renshaw
Ross Murdoch

Tom Dean
Andrew Mullen
Bethany Firth
Grace Harvey
Hannah Russell
Jessica Jane-Applegate
Rebecca Redfern
Scott Quin
Stephen Clegg
Thomas Hamer

GUATEMALA
Luis Grijalva

HUNGARY
Dávid Verrasztó
Dominik Kozma
Péter Bernek
Richárd Bohus

IRELAND
Síofra Cléirigh Büttner
Stephen Scullion

ITALY
Domenico Acerenza
Federica Pellegrini
Filippo Megli
Gabriele Detti
Gregorio Paltrinieri
Ilaria Cusinato
Marco De Tullio
Margherita Panziera
Martina Rita Caramignoli
Matteo Ciampi
Rachele Bruni
Sara Franceschi
Simona Quadarella
Simone Sabbioni
Stefano di Cola

JAPAN
Suguru Osako
Chihiro Igarashi
Daiya Seto
Kanako Watanabe
Katsuhiro Matsumoto
Katsumi Nakamura
Keita Sunama
Miho Teramura
Reona Aoki
Rika Omoto
Rikako Ikee
Rio Shirai
Ryosuke Irie

Ryuya Mura
Taishin Minamide
Yui Ohashi
Dai Tokairin
Keiichi Kimura

LITHUANIA
Andrius Šidlauskas
Danas Rapšys
Deividas Margevičius

NETHERLANDS
Bart van Nunen
Susan Krumins
Tony van Diepen
Marco van der Stel
Rachel Klamer
Bas Takken
Chantalle Zijderveld
Lisa Kruger
Liesette Bruinsma
Marc Evers
Thijs van Hofweegen
Tim van Duuren

NEW ZEALAND
Nick Willis
Carina Doyle
Hayley McIntosh
Cameron Leslie
Jesse Reynolds

NORWAY
Filip Ingebrigtsen
Håvard Haukenes
Hedda Hynne
Jakob Ingebrigtsen
Karoline Bjerkeli Grøvdal
Sondre Nordstad Moen
André Klippenberg
Grindheim
Henrik Christiansen
Fredrik Solberg
Sara Louise Rung

POLAND
Adam Kszczot
Marcin Lewandowski
Michal Rozmys

RUSSIA
Svetlana Moshkovich

SOUTH AFRICA
Richard Murray

SPAIN
Alvaro Martín
Luis Manuel Corchete
María Pérez
Miguel Angel López
Mario Mola

SWEDEN
Andreas Kramer
Emil Blomberg
Kalle Berglund
Meraf Bahta
Sarah Lahti
Simon Sundström
Vidar Johansson

TUNISIA
Oussama Mellouli

URUGUAY
Déborah Rodríguez

USA
Abdi Abdirahman
Aliphine Tuliamuk
Brooke Andersen
Cory McGee
Courtney Frerichs
Elle Purrier St. Pierre
Elise Cranny
Emily Sisson
Galen Rupp
Grant Fisher
Heather MacLean
Karissa Schweizer
Mason Ferlic
Matt Centrowitz
Molly Seidel
Nick Christie
Rachel Schneider
Sally Kipyego
Woody Kincaid
Arabella Sims
Erica Sullivan
Katie Grimes
Michael Brinegar
Katie Zaferes
Alfredo De los Santos

WorkFlow of HYPO2

Three cases to demonstrate:
- Perfect World
- External Service with Complications
- Inhouse Service with Complications

Envisioned WorkFlow of HYPO2

Solution Statement

- Eliminates constant emailing
- Allows the teams to schedule based on their available times
- Removes the need to update Google Drive team information
- Brings the HYPO2 staff together on one scheduling system
- Does not disrupt the current customer experience

Requirements Acquisition

Requirements were gathered through weekly meetings with our client.

- Every successive meeting allowed the team to develop a better understanding of the problem

- Recent meetings have yielded insight into a realistic and viable solution.

Requirements

Functional requirements are units of functionality that encapsulate the main features users will interact with when they visit the web management portal.

Two main categories of features:

- Shared Functionalities
- User Specific Functionalities

Non Functional performance based requirements.

Environmental requirements request by client.

Functional Requirements: Shared Functionalities

HYPO2's Web Portal will be comprised of the following shared functionalities:

- **User Accounts**
- **User Validation**
- **Notification Preferences**
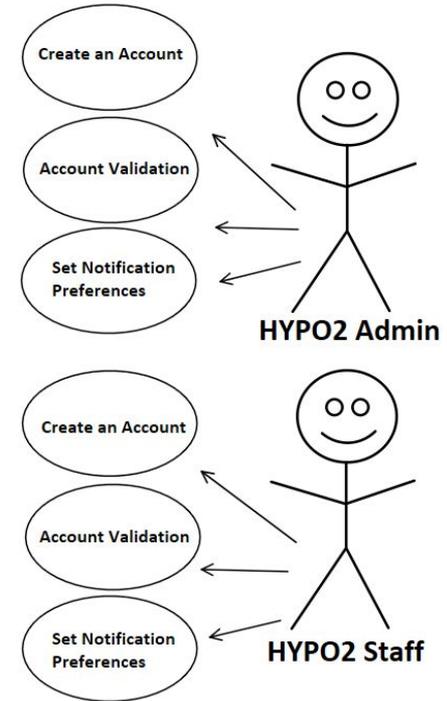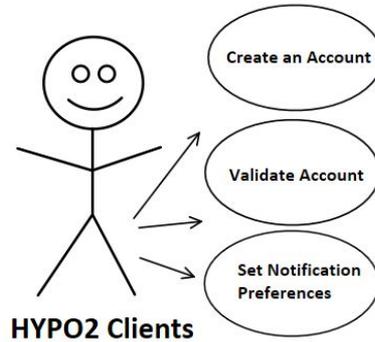
Functional Requirements: User-Specific Functionalities

HYPO2 Client Interface:

- Set Up a Training Camp
- Display Team Schedule
- Display Appointment Information
- Display Billing Information

HYPO2 Admin Interface:

- Update Camp Services and Pricing
- View Team and Staff Schedules
- View All Billing
- Upload Appointment Information

HYPO2 Staff Interface:

- View Personal Schedule
- Upload Appointment Information

Functional Requirement: Display Team Schedule

- **Pull Team Specific Camp Information**
  - Using team identifiers
  - Query start time, end times, descriptions and activity type
- **Format Team Camp Information**
  - Using a react calendar library
  - Fill fields with pulled information
- **Display Team Camp Schedule**
  - Appointment blocks will be interactable to provide users in-depth information
  - In the extended view users will be able to cancel an appointment

Performance and Environmental Requirements

HYPO2 Client Experience:

- Familiar and simplistic interface
- Understandable across multiple languages

HYPO2 Admin Experience:

- Understandable interface

HYPO2 Staff Experience:

- Familiar style
- Quickly learnable

Environmental:

- Must be accessible through Internet
- As-built report
- User manual

Risks and Feasibility

- **Data Mismanagement**
  - Likeliness: Low
  - Severity: Moderate
  - Mitigation: Client will be asked for specific data which will be stored exactly as given.
- **Authentication Bugs**
  - Likeliness: Low
  - Severity: High
  - Mitigation: Start with admin and coach permissions to ensure authentication works properly.
- **AWS Server Outage**
  - Likeliness: Low
  - Severity: Low
  - Mitigation: Provide PDF schedules weekly as an extra measure.

Project Schedule Fall Semester

Today

TASK	START	END	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16
Team Standards & Inventory	9/13/21	9/27/21																
Mini-Intro	9/20/21	10/4/21																
Fully Initialized Team Website	9/27/21	11/29/21																
Technlogical Feasibility	10/4/21	11/1/21																
Requirements Specification	10/18/21	11/29/21																
Design Review 1	11/8/21	11/15/21																
Project Info Mini-video	11/15/21	11/29/21																
Technical Prototoypes Demo	11/15/21	12/6/21																

Project Schedule Spring Semester

TASK	START	END	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16
Software Design	1/18/22	2/8/22	██	██	██	██	██											
Design Review 2	2/15/22	2/22/22						██	██									
Full Prototype Tech Demo	3/1/22	3/8/22								██	██							
Software Testing Plan	3/8/22	3/22/22									██	██						
Design Review 3	3/22/22	2/29/22											██	██				
Completed Team Website	4/5/22	4/12/22													██	██		
Capstone Poster	4/5/22	4/12/22													██	██		
Capstone Presentation	4/5/22	4/12/22													██	██		
Final Product Acceptance Demo	4/12/22	4/18/22														██	██	
As-bulit Report	4/18/22	4/26/22															██	██
Final Project Delivery	4/26/22	4/26/22																██

Conclusion

- HYPO2's current challenges
  - Managing a large amount of data for olympic teams.
  - Communication with multiple teams and services.
- Team Olympic Developers solutions
  - Produce a web application to centralize all of HYPO2's needs.
  - Limit external messaging platforms.
  - Eliminate the use of Google Drive.
  - Provide an easy to use service for HYPO2's clients.

Team Olympic Developers will ease the workflow of HYPO2 and help current and future olympians succeed.

QUESTIONS ?