Project No. and Name: P42 – Early stage startup building multisided platform for

research management - multi party approval flows

Project Development Period: 12 weeks

Client Name: Grace Ning Guan Client Organisation: OIC Education

Tutor Name: Vittoria Salim

Background: The context for this project	The team behind this project has a passion for helping out the younger generation. Their nature of being involved parents decided to tackle a problem that continues to worsen in the post-pandemic world. That problem is the ever increasing gap of skill and education access amongst high school students.
Aim Purpose of the project.	To develop a portal that increases the efficiency of career planning for students and increases the accessibility of career planning to all students.
Objectives (SMART): Goals of the project.	Successfully implement all the required features for ONE portal (to be confirmed by client). This required features are listed under the Scope section of this document.
Success Criteria: What does success look like for the sponsor and how can it be measured.	What does success look like for the client? The client would like us to implement as many of the required features for our allocated portal. However, the client, also, noted that if any particular proves to be too technically difficult to achieve, it is still fine and likely to be considered a success provided most other more basic features have been implemented. How can we measure success? We can measure how successful we are by considering how many features of our allocated portal we have successfully implemented to achieve the desired functionality on the platform. This can be broken down further through user stories and work tasks.
Deliverables List the outputs that will be produced as part of the project including the final product or service.	Please see the required features for each portal under the Scope section below.

Scope

The work that needs to be accomplished in order to deliver/complete the project.

We are only expected to work on ONE of the portals listed below. The portal has NOT yet been confirmed by the client.

Student portal

- Display and submit survey forms
- Display survey result analysis
- Display internal site news and notifications
- Interesting hub for student engagement
- Track daily mood status (simple emoji)
- "Need Help" button that notifies school staff
- Display path information and institution rankings

Parent Portal

- View and complete survey forms
- Analyse survey results
- Monitor recent behaviours and interests
- View target career paths and associated institution fees

School Portal

- Analyse surveys for various students
- View interests and career trends
- Modify mood statuses and identify students needing emotional support
- Generate and share interesting article

Admin Portal

- Create and manage surveys
- Set display options for different user roles
- Generate news and notifications
- Manage a calendar
- Create and link user accounts
- Generate daily mood visuals
- Control feature access for different users
- Search and review individual user statuses

Out Scope

Work you are not required to deliver as part of your project

- Designing survey
 - Collecting survey and student data
- Designing career match algorithm
- Designing guidelines to address privacy concerns

Milestones and Timelines

Key checkpoints with the client e.g. client deployment, approval deadlines

Week 1

- Initialise Bitbucket repository
- Start designing entity relations
 - Set up project management tool Jira

Week 2

- Create React app
- Set up Node.js and Express.js server
- Configure MongoDB database
- Implement basic API endpoints
- Set up user authentication system

Week 3-4

- Implement basic React components and routing
- Create login/registration pages
- Develop dashboard layout
- Implement state management

Week 5

- Create survey form components
- Implement survey submission functionality
- Develop API endpoints for survey data

Week 6

- Implement survey results retrieval and display
- Create data visualisation components for survey analysis

Week 7

- Develop news feed component
- Implement notification system
- Create API endpoints for news and notifications

Week 8

- Implement "interesting hub" feature
- Develop daily mood tracking functionality
- Create "Need Help" button

Week 9

- Integrate career paths feature
- Implement institution rankings display

Week 10

- Conduct thorough testing of all features
- Fix bugs and refine user interface
- Optimise performance and responsiveness

Week 11

- Set up Bitbucket Pipelines for CI/CD
- Deploy application to Heroku
- Write user documentation and API documentation

Week 12

- Conduct final round of testing
- Prepare project presentation
- Create demo video
- Finalise project report

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Meeting Frequency	Group
With what regularity will the	 2-3 times per week (including once during allocated
team meet with the client	tutorial time)
and report to the client; and	Tutor
group meetings.	Once a week during allocated tutorial time
	Client
	- Once a week (Either in person or using zoom. To be
	discussed using email)
	- Follow up as needed
Human Resources:	Grace Ning Guan, Founder
Are there other specialist	- 20 years of experience in the education industry
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staff or subject matter	including billion-dollar education business
experts that will participate?	development and admissions at the University of
	Sydney
	Dennis Scott, COO
	- Over 20 years of technical, sales, operational
	leadership developing and directing teams
	Saqib, CIO
	- CIO of John Hopkins Aramco Healthcare
	- 25 years of experience in Digital
	Innovation/Transformation, Cyber Security,
	Enterprise Risk, Business Resilience, Data Privacy,
	Audit & Compliance
	Lei Wei, CFO
	- CFO of NHS (National Health Service) UK
	- Honorary Treasurer in the UK charity sector
	Dr TJ Dimkov ,CISO
	- 15 years of cyber security background
	- has a PhD in cyber security
	- Global Head of Security at Prosusas Global
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Other Resources	Resources to be provided by the client:
Provided:	- Career algorithm
Are there other resources to	- Student and survey data
be utilised in the project and	- Mogups licence
provided by the client?	- Brand design
Data? Equipment?	Brana doorgin
Other Resources Needed:	Frontend
Are there other resources to	- React
be utilised in the project but	- React Router
need to be prepared by the	- Redux/Context API
group?	Backend
group:	
	- node.js
	- express.js
	Database Name DR and Database COL
	- MongoDB or PostgreSQL
	Version Control

- Bitbucket

API Requests

- Axios/Fetch API

UI Components

- Material UI/Anti Design

Form Handling

- Formik/React Hook Form

Authentication

- JSON Web Tokens

Build Tools

- Create React App

Hosting

- Heroku

CI/CD

- Bitbucket Pipelines