

Mötley Zoo Services Gateway

Company Name	Mötley Zoo								
Company Address	n/a								
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Project Title	Motley Zoo Service Gateway								
Project Description	<p>About the company: Mötley Zoo is a privately owned company which specializes in several services centered around dogs and cats primarily based in the east end of Toronto. Services include group dog walking, private dog walking, pet taxi services, and cat visits.</p> <p>About the project: Currently the company relies on a third-party service provided by “Time To Pet” which bears a cost of \$100US per month for three staff members, plus additional charges of 3% of the cost of each payment through their payment gate and additional \$10US charge per newly added staff member.</p> <p>Our project offers to bring an alternative to this system which maintains all of the core features, such as scheduling, messaging, reports, invoicing and a payment gate, and further expands the user base ability to any number of staffers. All at a reduced cost of covering just the hosting costs for the system, and the payment gate fees through Stripe (https://stripe.com), which is 2.9% of each payment. All of this would be done behind a secured and company-owned login/membership system.</p>								
Problem/ Opportunity Assessment *	<p><i>Please describe current state problem/opportunity that describes the nature and extent of the problem (factual, quantified, concise), or that outlines a chance for advancement or progress.</i></p> <table border="1"> <tr> <td>1.</td><td>Cost of competitions system is locked down to three staff members.</td></tr> <tr> <td>2.</td><td>Cost of competition system is high; our system could be much cheaper.</td></tr> <tr> <td>3.</td><td>Current services the company relies on forces a highly visible partnership and dependence on the third-party company through a portal to the other companies' system.</td></tr> </table>	1.	Cost of competitions system is locked down to three staff members.	2.	Cost of competition system is high; our system could be much cheaper.	3.	Current services the company relies on forces a highly visible partnership and dependence on the third-party company through a portal to the other companies' system.		
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Desired Project Outcomes/ Requirements*	<p><i>Define how this project shall address a business need, e.g., the business problem or opportunity described above; describe what the beneficiary must be able to do / receive from the solution</i></p> <table border="1"> <tr> <td>1.</td><td>The company will be able to add as many staff members as it wants</td></tr> <tr> <td>2.</td><td>The company will have reduced costs due to only covering hosting and Stripe API costs. As described above, no artificial inflation of costs by adding additional staff members</td></tr> <tr> <td>3.</td><td>The company will have a system owned by themselves, thus not relying on a third-party company which could prompt users to see what other competitive services the third-party company may offer.</td></tr> <tr> <td>4.</td><td>In later stages, the system can be expanded to include proprietary mobile applications (for each respective platform) and thus not have to rely solely on a browser-based solution.</td></tr> </table>	1.	The company will be able to add as many staff members as it wants	2.	The company will have reduced costs due to only covering hosting and Stripe API costs. As described above, no artificial inflation of costs by adding additional staff members	3.	The company will have a system owned by themselves, thus not relying on a third-party company which could prompt users to see what other competitive services the third-party company may offer.	4.	In later stages, the system can be expanded to include proprietary mobile applications (for each respective platform) and thus not have to rely solely on a browser-based solution.
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Key Deliverables to be produced by students*	<i>Define the boundaries of work that you expect to receive from the students effort (vs. internal effort)</i>	
	1.	The system will be based on a browser-based SPA design, utilizing RESTful API back-end design in JS/Node, coupled with React front end design. (Thus, allowing for later mobile application additions through utilization of the RESTful API.
	2.	The system will have one or more database(s) with info and documents including member profiles, past invoices, past reports, and aggregated monthly earnings and costs.
	3.	The system will have a client section with a scheduler for all or chosen staff's schedules, communication with chosen or given dog walker, payment gate for services, ability to review their experiences with the dog walker. If enabled by admin, the system will give the user the ability to leave a review of the business
	4.	The system will have a staff section with ability request to block time slots if needed, block time slots outright (if enabled by admin). The staff system will have ability to privately communicate with clients, admin/owner, or both. It will also be able to create various reports for admin and/or clients.
	6.	The system will have an admin version with all of the staff functionality, plus administrative abilities such as scheduling staff, business reports, control of staff and membership statuses in case of bans or firing/leaving job. It will also have the ability to enter and adjust clients' profiles and requests with a final approval condition by the client once adjustment is made in case of needing to assist less tech-savvy clients.
	7.	Abilities will be based on roles/authorization each with their own views/functionality.
	8.	The system will have ability to generate PDFs of invoices and reports.
	9.	Reports will have ability to add pictures.
	10.	The system will have an ability to generate and automatically send out emails for relevant communications
Desired Start Date	Monday, September 20, 2021	
Desired End Date	Friday, April 1, 2022	
Attachments	<i>List attachments that support project description</i>	
	1	https://axios-http.com/ -- HTTP client
	2	https://www.npmjs.com/package/bcryptjs -- Encryption package for system
	3.	https://nodemailer.com/about/ -- emailing package
	4.	https://flatpickr.js.org/ -- Date and time picker package, may be replaced or supplemented.
	5.	https://sequelize.org/ -- SQL ORM if SQL https://mongoosejs.com/ -- Mongo ORM if NoSQL
	6.	http://pdfkit.org/ -- PDF generation package
	7.	https://stripe.com -- Stripe API/Payment gate
		More packages to be added with research for best solutions.
	8.	Screenshots of Third party/competition system below (Page 3)

