**ITI 200 Introduction to Cloud Computing**

**Hotel Website**

**Team Members**

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# 1. Problem

Our team is working on developing a web application for the **Matt and Cameron Hotel**, an innovative solution for a group of hotels, headquartered in downtown Flint, MI. Because a venture round is just around the corner, with a tight deadline, our group needs to rapidly develop the hotel website.

# 2. Solution

Using CSS, HTML & JavaScript, we intend to deliver our project as expected.

* The Front End; the website consists of four HTML pages and a single CSS file. Bootstrap Elements: Navbar, Carousel, Cards, Forms, and Jumbotron.
* The Back End; Using AJAX, jQuery, JSON, and PostgreSQL, data is sent to and from the backend.
* Our website is fully hosted in the cloud using the following Amazon Web Services: S3 Bucket (for images), RDS (database). EC2 (cloud server).

# 3. Demo

* Visit at: [***http://ec2-18-220-36-99.us-east-2.compute.amazonaws.com:3000***](http://ec2-18-220-36-99.us-east-2.compute.amazonaws.com:3000)
* Source code: [***https://github.com/RusskiyMedved/ITI-200-Final***](https://github.com/RusskiyMedved/ITI-200-Final)
* ***Video:*** [***https://www.youtube.com/watch?v=OAV8xvFIHXw***](https://www.youtube.com/watch?v=OAV8xvFIHXw)

# 4. Lessons Learned

Developing the hotel webpage our group was able to practice and have hands-on experience on all the concepts studied throughout the entire semester. The concepts applied are: HTML, CSS, and JavaScript, along with the widely used frameworks for CSS and JavaScript, such as Bootstrap and jQuery. The important lesson learned was to work as a team and to exchange ideas and focus on ideas completing the project.

# 5. Issues/Bugs Known

* Unlimited guests can stay in any room.
* Past dates can be selected for check-in.
* Navbar does not update with active page.
* Invalid emails can be entered on the contact form.

# 6. Future Versions

In the future we plan to implement the following:

* enhance bootstrap elements to be more visually appealing and professional (update navbar active page).
* place limits on the number of guests on a per-room basis.
* create an employee login page to view active bookings and contact requests.

# 7. References

“Introduction to HTML - Learn Web Development: MDN.” *Learn Web Development | MDN*, https://developer.mozilla.org/en-US/docs/Learn/HTML/Introduction\_to\_HTML.

*JQuery Tutorial*, https://www.w3schools.com/jquery/default.asp.

Mark Otto, Jacob Thornton. “Get Started with Bootstrap.” *· Bootstrap v5.2*, https://getbootstrap.com/docs/5.2/getting-started/introduction/.

Mark Otto, Jacob Thornton. “Typography.” *· Bootstrap v5.2*, https://getbootstrap.com/docs/5.2/content/typography/.