The background of the slide features abstract, overlapping green geometric shapes, primarily triangles and polygons, in various shades of green, creating a modern and dynamic look.

CSP 586

Software Modeling Dev with UML

Project Phase #1

Demographics

Team 10

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OVERVIEW

- ▶ Objective: To design and implement an object oriented charting Dashboard for data analytics and visualization of Demographics datasets. This helps the user in drawing vital insights.
- ▶ The following are the forms of plots that we are planning to achieve.
 - ▶ Pie chart
 - ▶ Bar chart
 - ▶ Line chart
 - ▶ Stacked chart
 - ▶ Pivot chart

PROJECT FEATURES

- ❖ *User will be able to load the data into data frame object using Dataframe.js*
- ❖ *File based client sided framework used wherein no exclusive server required.*
- ❖ *Chrome and Firefox have inbuilt ES6 compilers and servers like v8 which are operate the hood.*
- ❖ *Plot the data as chart using Chart.js*
- ❖ *Information must be displayed in a table*
- ❖ *Dashboard must work in the latest version of Chrome and Firefox*

List of Data Sets

1. Demographics by Race

<https://www.kaggle.com/mikejohnsonjr/us-counties-diversity-index/data>

2. Demographics by Income

<https://www.kaggle.com/jonavery/incomes-by-career-and-gender/data>

3. Demographics by Zip codes

<https://www.kaggle.com/census/us-population-by-zip-code/data>

4. Demographics by Job Category

<https://www.kaggle.com/ratatman/silicon-valley-diversity-data/data>

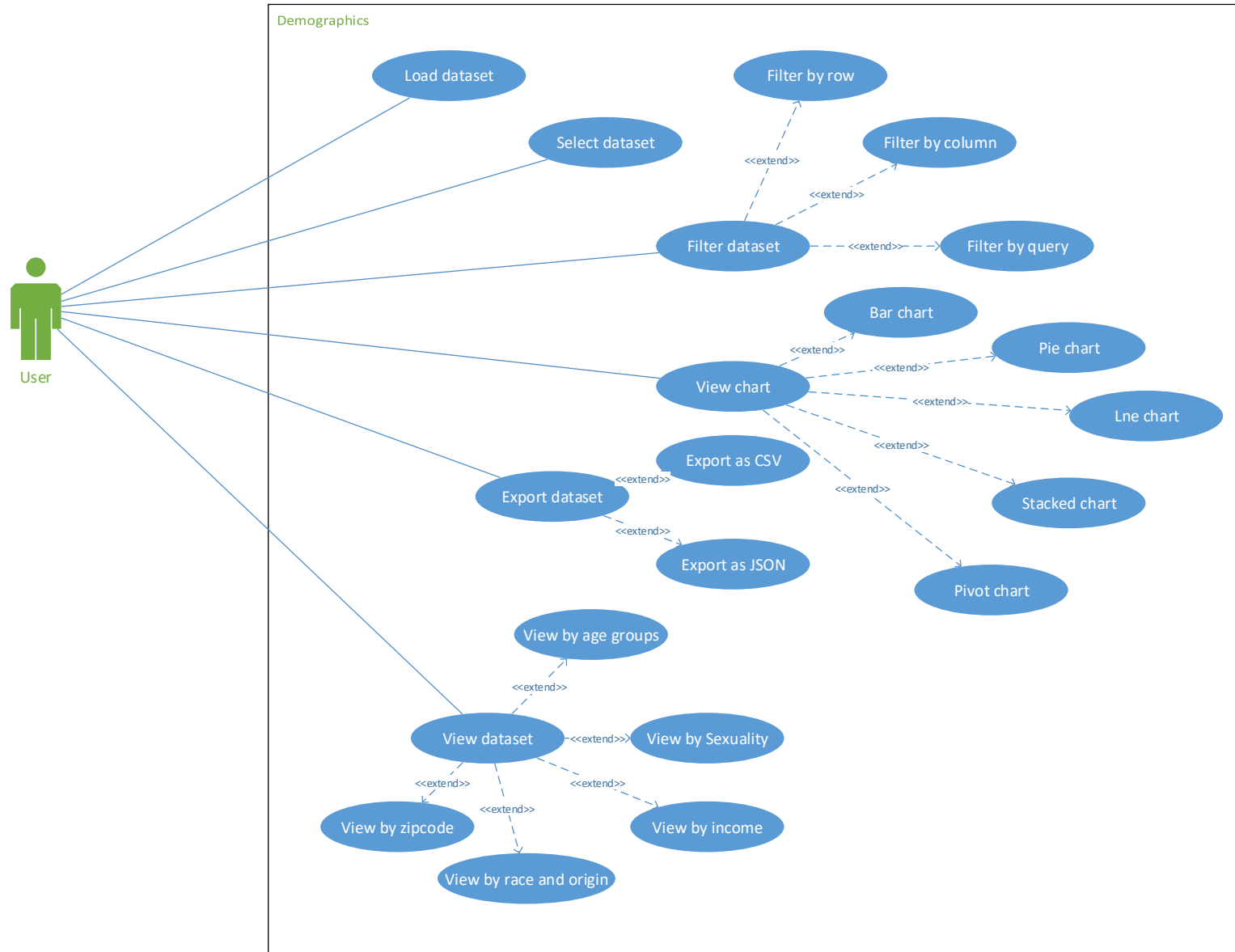
5. Demographics by Sexuality

<https://williamsinstitute.law.ucla.edu/visualization/lgbt-stats/data>

List of use cases

1. Load Dataset- Can load the different datasets
2. Export Dataset- Can export either as CSV FILE or export as JSON FILE
3. Select Dataset- Select the desired dataset
4. Filter Dataset- Can be able to filter the desired datasets by rows, columns or queries
5. View Chart- Can view charts in various forms like bar, line, pie, stacked and pivot charts
6. View Dataset- various options like race (ethnicity), income, job, sexuality and zip codes in the USA

USE CASE DIAGRAM



Thank You

Spanish - Gracias

Dhanyawada - Kannada

Italian - Grazie

Danke sehr - German

French - Merci daw-dyeh - Chinese

Arigato - Japanese