**Data Mapping Design Document**

**Overview**

This document describes the data mapping process for the transformation of input objects to output objects in the **SendDetailsService**. Specifically, it outlines how data is mapped from **User** objects to **SendDetailsRequest** and from **User** and **SendDetailsResponse** objects to **AppApiResponse**.

**Request Data Mapping**

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| **Class: MapRequest** |
| **Method:** createRequest(User user) |
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| **Input:** |
| Input Object: User |
| Attributes: firstName, lastName, id |
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| **Output:** |
| Output Object: SendDetailsRequest |
| Attributes: firstName, lastName, id |
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| **Data Mapping Logic:** |
| 1. Retrieve the attributes firstName, lastName, and id from the input User object. |
| 2. Create a new SendDetailsRequest object. |
| 3. Set the attributes firstName, lastName, and id in the SendDetailsRequest object. |
| 4. Return the SendDetailsRequest object as the result. |

**Response Data Mapping**

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| **Class: MapResponse** |
| **Method:** getApiResponse(User user, SendDetailsResponse sendDetailsResponse) |
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| **Input:** |
| Input Object 1: User |
| Attributes: id, firstName, lastName, username, email |
| Input Object 2: SendDetailsResponse |
| Attributes: message |
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| **Output:** |
| Output Object: AppApiResponse |
| Attributes: code, message, type |
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| **Data Mapping Logic:** |
| 1. Set the code attribute in the AppApiResponse object to the id attribute from the input User object to the id attribute from the input User object. |
| 2. Construct the message attribute in the AppApiResponse object by combining:  - firstName and lastName from the input User object.  - message from the input SendDetailsResponse object.  - username and email from the input User object. |
| 3. Set the type attribute in the AppApiResponse object to "SUCCESS". |
| 4. Return the AppApiResponse object as the result. |

**Conclusion**

This data mapping design document outlines how data is mapped from input User objects to SendDetailsRequest objects and from input User and SendDetailsResponse objects to AppApiResponse objects in the SendDetailsService.