<u>INF 354</u>

Example 2022

```
Typescript:
ihero.ts interface:
export interface Ihero
  id: number;
  name: string;
  image: string;
}
hero.ts file:
import { Ihero } from "./ihero";
type allowNull = number | string | null;
export class Hero implements Ihero
{
  id!: number;
  name!: string;
  age!: allowNull;
  birthday!: allowNull;
  height!: string;
  image!: string;
  alive!: boolean;
}
```

Angular:

```
chatstats.component.html:
```

```
<thead>
 Stat
  Value
 </thead>
# Msgs from bot
  {{ messages.filtered( message => message.isBotAuthored).length }}
 ># Msgs from user
  {{ messages.filtered( message => !message.isBotAuthored).length }}
 # Msgs exceeding 10 words
  {{ messages.filter(message => message.text.split(' ').length > 10).length }}
```

```
chatpopup.component.ts:
onAddNewMessage(): void {
   if (this.newMessageText.trim() !== ") {
      const newMessage: ChatMessage = {
      text: this.newMessageText.trim(),
      isBotAuthored: false,
      timestamp: new Date()
      };
      this.chatMessageManagerService.AddMessage(newMessage);
      this.newMessageText = ";
   }
}
```

```
chatstats.component.ts:
export class ChatstatsComponent implements OnInit {
 botMessagesCount: number = 0;
 userMessagesCount: number = 0;
 longMessagesCount: number = 0;
 constructor(private chatMessageManagerService: ChatMessageManagerService) { }
 ngOnInit(): void {
  this.chatMessageManagerService.messageAdded.subscribe((newMessage: ChatMessage)
=> {
   if (newMessage.isBotAuthored) {
    this.botMessagesCount++;
   } else {
    this.userMessagesCount++;
   }
   const words = newMessage.text.split(' ');
   if (words.length > 10) {
    this.longMessagesCount++;
   }
  });
 }
}
```

Example 2021:

}

```
Web API and Angular:
CourseController.cs:
[HttpGet]
[Route("GetCourseCode/{courseCode}")]
public async Task<IActionResult> GetCourseCode(string courseCode)
{
  try
  {
    var course = await _courseRepository.GetCourseByCourseCode(courseCode);
    if (course == null)
    {
      return NotFound(400, "Not Found");
    }
    return Ok(course);
  }
  catch (Exception)
  {
    return StatusCode(500, "Internal service error");
  }
```

course-details.component.ts: