```csharp
using Meditech.App.Crm.Services;
using Meditech.App.Crm.ViewModels;
using Meditech.Core.Auth.Authorization;
using Meditech.Core.Auth.Entities;
using Microsoft.AspNetCore.Authorization;
using Microsoft.AspNetCore.Mvc;

namespace Meditech.App.Crm.Controllers
{
    [ApiController]
    [Route("{culture:culture}/api/v{version:apiVersion}/[controller]")]
    [ApiVersion("1.0")]
    public class DichVuTaiNhaCategoryController : ControllerBase
    {
        private readonly ILogger<DichVuTaiNhaCategoryController> _logger;
        private readonly IDichVuTaiNhaCategoryService _dichVuTaiNhaCategoryService;
        public DichVuTaiNhaCategoryController(ILogger<DichVuTaiNhaCategoryController> logger,
                                IDichVuTaiNhaCategoryService dichVuTaiNhaCategoryService)
        {
            _logger = logger;
            _dichVuTaiNhaCategoryService = dichVuTaiNhaCategoryService;
        }

        [HttpPost]
        [Route("search-grid")]

        public IActionResult SearchGrid(SearchGridViewModel model)
        {
            try
            {
                var requestUser = (BaseUser)Request.HttpContext.Items["User"];
                if (requestUser == null) return Forbid();
                var data = _dichVuTaiNhaCategoryService.SearchGrid(model);
                return Ok(new { Data = data });
            }
            catch (Exception ex)
            {
                _logger.LogError(ex, $"SearchGrid error. ");
                return StatusCode(600, $"Lỗi hệ thống. Error={ex.Message}");
            }
        }
        [HttpGet]
        [Route("get-all")]
        [MediAllowAnonymous]
        public IActionResult GetAllDichVuTaiNhaCategory()
        {
            try {

                var data = _dichVuTaiNhaCategoryService.getAllDichVuTaiNhaCategory();
                return Ok(new { Data = data });
            }
            catch (Exception ex)
            {
                _logger.LogError(ex, $"GetHospitalById error. ");
                return StatusCode(600, $"Lỗi hệ thống. Error={ex.Message}");
            }
        }
        [HttpGet]
        [Route("get-by-id")]
        public IActionResult GetDichVuTaiNhaCategoryById(Guid id)
        {
            try
            {
                var requestUser = (BaseUser)Request.HttpContext.Items["User"];
                if (requestUser == null) return Forbid();
                var data = _dichVuTaiNhaCategoryService.getDichVuTaiNhaCategoryById(id);
                return Ok(new { Data = data });
            }
            catch (Exception ex)
            {
                _logger.LogError(ex, $"GetHospitalById error. ");
```

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                return StatusCode(600, $"Lỗi hệ thống. Error={ex.Message}");
            }
        }

        [HttpPost]
        public IActionResult AddNewDichVuTaiNhaCategory(DichVuTaiNhaCategoryViewModel model)
        {
            try
            {
                var requestUser = (BaseUser)Request.HttpContext.Items["User"];
                if (requestUser == null) return Forbid();
                var data = _dichVuTaiNhaCategoryService.AddNewDichVuTaiNhaCategory(model, requestUser.Id);
                if (data.IsOk) return Ok(new { Data = data });
                return StatusCode(600, data);
            }
            catch (Exception ex)
            {
                _logger.LogError(ex, $"AddNew error. ");
                return StatusCode(600, $"Lỗi hệ thống. Error={ex.Message}");
            }
        }

        [HttpPut]
        public IActionResult UpdateDichVuTaiNhaCategory(UpdateDichVuTaiNhaCategoryViewModel model)
        {
            try
            {
                var requestUser = (BaseUser)Request.HttpContext.Items["User"];
                if (requestUser == null) return Forbid();
                var data = _dichVuTaiNhaCategoryService.UpdateDichVuTaiNhaCategory(model);
                if (data.IsOk) return Ok(new { Data = data });
                return StatusCode(600, data);
            }
            catch (Exception ex)
            {
                _logger.LogError(ex, $"Update error. ");
                return StatusCode(600, $"Lỗi hệ thống. Error={ex.Message}");
            }
        }

        [HttpDelete]
        public IActionResult DeleteDichVuTaiNhaCategory(Guid id)
        {
            try
            {
                var requestUser = (BaseUser)Request.HttpContext.Items["User"];
                if (requestUser == null) return Forbid();
                var data = _dichVuTaiNhaCategoryService.DeleteDichVuTaiNhaCategory(id);
                if (data.IsOk) return Ok(new { Data = data });
                return StatusCode(600, data);
            }
            catch (Exception ex)
            {
                _logger.LogError(ex, $"Delete error. ");
                return StatusCode(600, $"Lỗi hệ thống. Error={ex.Message}");
            }
        }

        [HttpPut]
        [Route("change-state")]
        public IActionResult StatusDichVuTaiNhaCategory(UpdateDichVuTaiNhaCategoryStatusViewModel model)
        {
            try
            {
                var requestUser = (BaseUser)Request.HttpContext.Items["User"];
                if (requestUser == null) return Forbid();
                var data = _dichVuTaiNhaCategoryService.StatusDichVuTaiNhaCategory(model);
                return Ok(new { Data = data });
            }
            catch (Exception ex)
            {
                _logger.LogError(ex, $"Status error. ");
                return StatusCode(600, $"Lỗi hệ thống. Error={ex.Message}");
            }
        }
```

```
        }
    }
}
```